

# MAANTIELIIKENTTEEN JATKUVAT LIIKENNELASKENNAT



KONEELLINEN LIIKENNELASKENTA 1987  
KEHITYS 1979 — 1987

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TIE- JA VESIRAKENNUSHALLITUS

HELSINKI 1988

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## ALKUSANAT

Tie- ja vesirakennuslaitoksen valtakunnallisessa liikennelaskentajärjestelmässä koneellinen liikennelaskenta muodostaa oleellisen osan.

Liikennemäärätietoa on koottu 70 laskentapisteeltä, jotka lähes kaikki sijaitsevat päätieverkolla.

Tämä julkaisu on koottu liikennetiedon käyttäjän apuvälineeksi vuoden 1987 tilanteesta.

Materiaalin julkaisuun on muokannut ja piirtänyt DPS/CALCOMP piirturiohjelmistolla Arja Laitinen ja Jukka Räsänen.

Julkaisun on koonnut ja lisätietoja antaa Jaakko Pitkänen (p. 90-1542151).

Apulaisjohtaja



Kirill Härkänen

## MAANTEIDEN JATKUVAT LIIKENNELASKENNAT, YLEISKUVAUS

Induktioperiaatteella toimivilla laskentakoneilla, UL-CAR + Pulse-O-Matic, on kerätty liikennemäärätietoa jo vuodesta 1974 lähtien. Lähes kaikki noin 80 laskentapistettä sijaitsevat päätieli-verkolla. Jatkuva automaattinen laskentamuoto mahdollistaa autoliikenteen ominaisuuksien selvittämisen ohella luotettavan liikenteen kehityksen seuraamisen. Laskentakoneet laskevat koko autoliikenteen. Liikenteen koostumuksen selvittämiseksi on suoritettu kolmena kuukautena arkivuorokautena 16 tunnin mittainen käsinlaskenta (06-22).

Jokaiselta pisteeltä tuotetaan ensivaiheena kuukausittain:

- ☆ Peruslista, jolla liikennemäärät ovat neljännestunneittain kummaltakin ajosuunnalta erikseen.
- ☆ Viikkolista, jolla liikennemäärät on esitetty tunneittain kummallekin ajosuunnalle erikseen sekä näiden summa. Liikennemäärien lisäksi on tulostettu tuntivaihtelukertoimet, jotka ilmoittavat ao. tunnin liikennemäärän suhteellisen prosenttiosuuden vuorokauden kokonaisliikennemäärästä. Tulostuksesta ilmenee myös ao. viikon viikonpäivävaihtelukertoimet, jotka kertovat ajosuunnittain kunkin viikonpäivän liikennemäärän suhteen viikon keskimääräiseen vuorokausiliikennemäärään.

Kun koko vuoden liikennemäärät on kerätty talteen, tulostetaan:

- ☆ Vuosilista, jossa esitetään vuoden keskimääräinen vuorokausiliikenne, vuoden keskimääräinen arkivuorokausiliikenne sekä kesän keskimääräinen vuorokausiliikenne suunnittain ja suunnat yhteensä. Lisäksi on laskettu kesäkauden (kesä-elokuu) sunnuntaipäivien keskimääräinen viikonpäivävaihtelukerroin ja kesäliikennekerroin. Vuosilistalla on myös esitetty vuoden jokaisen päivän liikennemäärä ja näistä lasketut viikon arkiliikennekeskiarvot (ma-to) ja viikkokeskiarvot sekä näiden suhde vastaaviin vuosikeskiarvoihin.
- ☆ Tuntiliikennelista, johon vuoden kaikki tunnit on järjestetty suuruusjärjestykseen suunnittain ja suunnat yhteensä. Kunkin tunnin kohdalla on ns. tuntijärjestystä kuvaava luku, joka tarkoittaa ao. tuntiliikenteen suhdetta vuoden keskimääräiseen vuorokausiliikenteeseen. Luvut on vielä jaettu kahteen perusjoukkoon, joista toisessa on mukana kaikki tunnit ja toisessa ainoastaan viikonlopun tunnit. Tämän lisäksi on laskettu kuhunkin tuntiin mennessä syntynyt kertymä vuosiliikenteen kokonaismäärästä.
- ☆ Koko aineistosta on tuotettu graafisena tulostuksena vaihtelumuoto- ja tuntijärjestyskäyrät.

Käsillä oleva julkaisu on tarkoitettu liikennetiedon käyttäjän apuvälineeksi ja se kertoo tilanteesta vuonna 1987. Julkaisuun on koottu keskimääräisten liikennemäärätietojen ja koostumustietojen ohella liikenteen kehityksen ja tuntiliikennemäärien kehityksen trendi vuodesta 1979 vuoteen 1987. Lisäksi on vuoden -87 kausivaihtelukäyrä, kesän huippuviikon (A) ja syksyn KVL-tason (B) viikon viikonpäivävaihtelut sekä tuntijärjestyskäyrä.

Julkaisuun on laskettu muutamille tunneille huipputuntikerroin HTK, joka kuvaa liikenteen vaihtelua tarkasteltavan huipputunnin aikana.

Tietoja yksityiskohtaisista tuloksista saa piirien suunnittelutoimialalta ja TVH:n talousosaston tutkimustoimiston liikennetutkimusjaostolta.

Sivuilla 4-6 on taulukoitu kaikki TVL:n toiminnassa olleet kiinteät konelaskentapistet vuosiina 1978-1987.



## Julkaisussa käytetyt lyhenteet:

KVL	— vuoden keskimääräinen vuorokausiliikenne
KAVL	— vuoden keskimääräinen arkivuorokausiliikenne
KKVL	— kesän keskimääräinen vuorokausiliikenne
D' (KKVL/KVL)	— kesäliikennekerroin
A'	— tuntivaihtelukerroin (kunkin kuukauden kyseessä olevien päivien keskiarvo)
A	— kesän huippuviikon viikonpäivävaihtelut
B	— syksyn KVL-tason viikonpäivävaihtelut
HA	— henkilöautot
PA	— pakettiautot
LA	— linja-autot
KAIP	— kuorma-autot ilman perävaunua
KAPP	— puoliperävaunulliset kuorma-autot
KATP	— täysperävaunulliset kuorma-autot
MA	— maanantai
TI	— tiistai
KE	— keskiviikko
TO	— torstai
PE	— perjantai
LA	— lauantai
SU	— sunnuntai
B' (SU/KESÄ)	— kesäkauden (kesä-elo) sunnuntaipäivien keskimääräinen viikonpäivävaihtelukerroin
W	— viikkokeskiarvo
H	— tunti
Q	— tunnin liikennemäärä
VT (vt)	— valtatie
KT (kt)	— kantatie
MT (mt)	— maantie
$HTK = \frac{V}{4 \times \sqrt[4]{V_{15}}}$	— huipputuntikertoimen laskentakaava
$V$	— liikennemäärä koko huipputunnin aikana
$\sqrt[4]{V_{15}}$	— liikennemäärä vilkkaimman 15 minuutin aikana huipputunnin sisällä

KONEELLINEN LIIKENNELASKENTA V. 78-87  
PISTELUETTELO

piste nro	tie nro	tieosan nimi	tie- osan nro	etäi- syys	vuosi												
					78	79	80	81	82	83	84	85	86	87			
0002	vt 4	Mäkelä - Rienoja	111	2.6	x	x	x	x	x	x	x	x	x	x	x	x	x
0127	vt 3	Nummensyrjä - Noppo	109	3.8	x	x	x										
0130	vt 2	Aromäki th - Karkkila th	013	2.4	x	x	x	x	x	x	x	x	x	x	x	x	x
0132	kt 51	Kirkkonummi - Båtvik th	009	1.1	x	x	x	x	x	x	x	x	x	x	x	x	x
0133	vt 4	Vaarala - Jokivarsi (Helsinkiin)	004	2.5	x	x	x	x	x	x	x	x	x	x	x	x	x
0134	kt 50	Hämeenkylä - Tammisto	006	3.9	x												
0135	vt 4	Vaarala - Jokivarsi (Lahteen)	004	2.5	x	x	x	x	x	x	x	x	x	x	x	x	x
0136	kt 53	Perttilä - Lieviö	022	3.0	x	x	x	x	x	x	x	x	x	x	x	x	x
0138	mt 167	Myrskylä pit.raja - Myrskylä	010	4.9	x	x	x										
0139	vt 3	Metsäkylä - Hirvihauta	105	3.0	x	x	x	x	x	x	x	x	x	x	x	x	x
0140	pt 11459	Päivölä - Seutula	003	1.1	x	x	x										
0141	mt 155	Porvoon kaup.raja - Stensböle	001	4.2	x												
0143	vt 1	Huopalahti - Leppävaara (Helsinkiin)	003	1.8	x	x	x	x	x	x	x	x	x	x	x	x	x
0144	vt 1	Huopalahti - Leppävaara (Turkuun)	003	1.8	x	x	x	x	x	x	x	x	x	x	x	x	x
0145		poikkileikkaus pisteistä 0133 ja 0135				x	x				x	x	x	x	x	x	x
0146		poikkileikkaus pisteistä 0143 ja 0144				x	x				x	x	x	x	x	x	x
0147	vt 7	Gammelby - Koskenkylä	015	3.1	x	x	x	x	x	x	x	x	x	x	x	x	x
0148	vt 4	Luhtikylä - piirin raja	119	1.5		x	x	x	x	x	x	x	x	x	x	x	x
0149	kt 53	Mylläkyä - Metsäkulman pth	034	5.3				x	x	x	x	x	x	x	x	x	x
0150	kt 50	Hämeenkylä - Veromiehenkylä pth (itään)	006	4.1				x	x	x	x	x	x	x	x	x	x
0151	kt 50	Hämeenkylä - Veromiehenkylä pth (länteen)	006	4.1				x	x	x	x	x	x	x	x	x	x
0152	kt 50	poikkileikkaus pisteistä 0150 ja 0151						x	x	x	x	x	x	x	x	x	x
0222	vt 1	Muurla	021	3.3													x
0223	vt 1	Tammisilta - Mäkarla	030	5.0												x	x
0224	mt 180	Kuusiston silta - Kirjalan silta	001	3.2		x	x	x	x	x	x	x	x	x	x	x	x
0226	vt 10	Kausela - Liedon kko	002	5.1		x	x	x	x	x	x	x	x	x	x	x	x
0228	vt 1	Kumpula - Joensuu	025	4.0	x	x	x	x	x	x							
0229	vt 8	Nummenkylä - Mynämäki	107	0.8	x												
0230	mt 189	Lietsalan pth - Lietsala	002	4.2	x	x	x	x	x	x	x	x	x				
0231	mt 247	Peipohja P - Kokemäki	001	1.7	x												
0232	vt 8	Pori - Söörmarkku	202	7.6	x	x	x	x	x	x	x	x	x	x	x	x	x
0233	vt 8	Raisio - Marjamäki	103	0.8	x	x	x	x	x	x	x	x	x	x	x	x	x
0323	vt 2	Honkaluoto - Pori	047	4.3	x	x	x	x	x	x	x	x	x	x	x	x	x
0324	mt 265	Pori - Mäntyluoto	001	4.8	x	x	x	x	x	x	x	x	x	x	x	x	x
0422	vt 12	Tampere - Kangasala	002	0.1	x	x	x	x	x	x	x	x	x	x	x	x	x
0428	vt 3	Parola - Nihattula	123	5.2	x	x	x	x	x	x	x	x	x	x	x	x	x
0429	vt 12	Nastola - Uusikylä	024	2.0	x	x	x	x									
0431	vt 12	Sotiala - Tuulos	010	1.4	x	x	x	x	x	x	x	x	x	x	x	x	x
0432	vt 9	Eväjäjärvi - Keski-Suomen piirin raja	217	4.0	x	x	x	x	x	x	x	x	x	x	x	x	x
0433	kt 54	Lappila - Järvelä	016	4.2	x	x	x	x	x	x	x						
0434	kt 66	Pulttonen - Heinäaho	014	3.1	x	x	x	x									
0435	vt 3	Tampere - Ylöjärvi	202	6.0		x	x	x	x	x	x	x	x	x	x	x	x
0436	vt 3	Hämeen piirin raja - Herajoki	114	5.0					x	x	x	x	x	x	x	x	x
0437	vt 9	Viiala	126	1.0					x	x	x	x	x	x	x	x	x
0517	vt 15	Tuohikotti II - Tuohikotti	015	2.0						x	x	x	x	x	x	x	x
0518	vt 6	Lappeenranta - Partala	303	2.5				x	x	x	x	x	x	x	x	x	x
0521	kt 60	Kellomäki - Kuusankoski	001	2.4	x												
0522	vt 7	Pyhtää, Kangasmäki - Huutjärvi	026	1.0													
0523	vt 6	Rantsilanmäki - Jurvala	210	3.0	x	x	x										
0524	kt 60	Saviston pth - Rajasuo	005	0.4	x	x	x										
0525	vt 6	Sotkulampi - Vuoksen satamatie	310	3.8	x	x	x										
0526	mt 373	Karjalankatu	001	3.0	x	x	x										
0527	mt 4015	Parikkalan as. - Tehtaanmäki	001	5.5	x	x	x										
0528	vt 6	Puhjo - Käyrälampi	201	0.3		x	x	x	x								
0529	vt 7	Suurniitty - Tavastila	031	1.7		x	x	x									
0530	mt 392	Lappeenranta - Nuijamaa	002	0.4			x	x									
0531	vt 6	Elimäki	127	0.5				x	x	x	x	x	x	x	x	x	x
0532	vt 12	Kausala	030	3.8				x	x	x	x	x	x	x	x	x	x
0533	vt 7	Hamina - Vehkalahti	036	0.2				x	x	x	x	x	x	x	x	x	x
0534	vt 6	Rautjärvi	318	3.0					x	x	x	x	x	x	x	x	x
0535	vt 13	Savitaipale	106	2.0					x	x	x						



piste nro	tie nro	tieosan nimi	tie- osan nro	etäi- syys	vuosi										
					78	79	80	81	82	83	84	85	86	87	
0620	kt 59	Ruskeala - piirin raja	089	2.6	x									x	x
0623	vt 5	Kuortti - Vihantasalmi	118	1.2	x										
0628	vt 5	Rantakylä - Kiiskimäki	127	0.6	x	x									
0629	mt 420	Mäntyharju - Ristiina	003	4.7	x	x									
0630	mt 4323	Ristiina	001	0.3	x	x	x								
0631	kt 70	Suurmäki - Pohjois-Karjalan piirin raja	414	1.1	x	x	x	x							
0632	vt 5	Myllyoja - Heinola	108	1.8		x	x	x							
0633	mt 410	Nuoramoinen - Otamo	004	2.6		x	x	x	x						
0634	kt 60	Kymen piirin raja - Hujansalo	011	2.4			x	x	x						
0635	mt 450	Vaalijala - Surnuimäki	004	1.1			x	x	x	x					
0636	vt 13	Lapaskangas - Keski-Suomen piirin raja	139	2.7				x		x	x		x	x	x
0637	mt 459	Narila - Virtasalmi	005	0.4					x	x	x	x			
0638	mt 467	Hiismäki - Osikonmäki	001	1.3					x		x	x			
0639	vt 14	Jukola - Kokonharju	021	3.6						x	x	x	x	x	x
0640	mt 471	Makkola - Simanala	003	2.2						x	x	x			
0641	vt 14	Savonlinna, Kyrönsalmen silta	015	1.2							x	x			
0642	vt 5	Mutala - Palviainen, Joroinen	144	3.8									x	x	x
0643	mt 464	Tiemassaari - Torasalo, Rantasalmi	004	1.7									x	x	x
0644	mt 476	Heinävesi - Sappu, Heinävesi	008	0.8										x	x
0707	vt 6	Niittylahti - Reijola	348	0.7								x	x	x	x
0709	vt 17	Lentoas. th - Lautasuo	026	1.6	x	x	x	x	x	x	x	x	x	x	x
0710	vt 18	Kontiolahti - Romppala	008	0.5	x	x	x	x	x	x	x	x	x	x	x
0711	kt 74	pt 15736 - Tuupovaara pit.	008	1.4	x	x	x	x	x	x	x				
0712	vt 18	Uuro pth - Uuro	003	5.4	x	x	x	x	x	x	x	x	x	x	x
0713	vt 23	Ristinpohja lv th - Kontkala	417	5.3	x	x	x	x	x	x	x	x	x	x	x
0801	vt 5	Puijonrinne - Vuorela (Kuopio)	202	2.6	x	x	x	x	x	x	x	x	x	x	x
0802	vt 5	Puijonrinne - Vuorela (Iisalmi)	202	2.6										x	x
0803		Poikkileikkaus pisteistä 0801 ja 0802												x	x
0808	vt 5	Toivala - Kasurila	204	5.0			x	x	x	x	x	x	x	x	x
0811	vt 17	Riistavesi - Telkkämäki	007	5.1	x	x	x	x	x	x	x	x	x	x	
0812	vt 5	Palokangas - Leppävirta	151	5.0	x	x	x	x	x	x					x
0816	vt 19	Salahmi - Isonmäki	008	1.0	x	x					x				
0817	mt 557	Maaninka kk - Ahkionlahti	005	6.0	x										
0818	vt 5	Peltosalmi - Iisalmi	217	4.5	x	x	x	x	x	x	x	x	x	x	x
0819	vt 5	Pitkälähti - Siikalähti	161	0.7		x	x	x	x	x	x	x	x	x	x
0907	vt 4	Salmijärvi - Keljonkangas	234	2.1	x	x	x	x	x	x	x	x	x	x	x
0910	vt 4	Kotakennäs - Pyyrinlahti	310	1.4	x	x	x	x	x	x	x	x	x	x	x
0913	vt 9	Lievestuore - Niemisjärvi	307	5.4	x	x	x	x	x	x	x	x	x	x	x
0914	vt 23	Kuohu - Vesanka	229	4.4	x	x	x	x	x	x	x	x	x	x	x
0916	mt 604	Jämsä - Jämsänkoski	002	1.2	x	x	x	x	x	x	x	x	x	x	x
1022	vt 3	Kylänpää - Jokiperä	241	3.4	x	x									
1023	vt 8	Äsända - Träskvik	216	4.0	x	x	x	x	x	x	x	x	x	x	x
1024	vt 16	Ruohomäki - Träskvik	014	4.6	x	x									
1025	vt 3	Jokipii - Ikari	232	0.5	x	x	x	x	x	x	x	x	x	x	x
1026	kt 67	Hemminki - Varpula	039	6.0	x	x	x	x	x	x	x	x	x	x	x
1027	mt 663	Kauhajoki - Aro	012	0.7	x	x	x	x	x	x	x	x	x	x	x
1028	vt 3	Hälsingby	248	5.0			x	x	x	x	x	x	x	x	x
1029	mt 697	Mäyry	007	3.2			x	x	x	x	x	x	x	x	x
1110	vt 8	Yppäri - Pyhäjoki kko	422	1.2	x	x	x	x	x	x	x	x	x	x	x
1111	vt 4	Venetpalo - Ruutikkala	341	3.4	x	x	x	x	x	x	x	x	x	x	x
1112	kt 85	Kälviä - Kannus	004	2.6		x	x	x	x	x	x	x	x	x	x
1113	kt 86	Honkalahti - Alpuminkangas	007	1.6	x										
1114	vt 13	Sulkaharju - Sillanpää	227	5.3	x	x	x	x	x	x	x	x	x	x	x
1214	vt 4	Tupos	363	1.4										x	x
1215	vt 4	Utajärvi	011	5.5											x
1217	vt 8	Pattijoki - Rautamulta	430	2.7	x	x	x								
1218	vt 20	Hintta - Korpi	003	4.2	x	x	x	x	x						
1219	vt 4	Roininen - Kiviniemi	366	1.0	x	x	x	x	x	x	x	x	x		
1220	vt 22	Rova - Laitasaari	006	5.1	x	x	x	x	x	x	x	x	x	x	
1221	mt 8103	Raahel - Mettala	001	1.2	x	x	x	x	x	x	x	x	x	x	x
1222	vt 4	Pateniemi - Kello	405	1.2				x	x	x	x	x	x	x	x
1223	mt 830	Hintta - Sanginsuu	001	0.7							x	x	x	x	x

piste nro	tie nro	tieosan nimi	tie- osan nro	etäi- syys	vuosi										
					78	79	80	81	82	83	84	85	86	87	
1311	vt 5	Mainua - Kuopion piirin raja	230	2.9	x										
1312	vt 5	Siltasuo - Jokikylä	313	4.2	x	x	x								
1314	kt 85	Vuottolahti - Siltaperä	047	2.0	x	x									
1315	kt 76	Tipasoja - Pöytäahon pth	007	6.9	x	x								x	
1316	vt 5	Pohjolankatu - Kuurnan pth	301	0.7	x	x	x	x	x	x	x				
1317	vt 5	Ruottusenpuro - Ämmänsaari	324	2.7		x	x	x	x	x	x	x	x	x	
1318	kt 78	Pihlajavaara	110	2.1			x	x	x	x	x	x	x		
1319	mt 899	Koneppa	005	1.9			x	x	x	x	x	x	x	x	
1320	mt 900	Akonlahti - Kuhmo	013	2.3				x	x	x	x	x	x	x	
1321	vt 22	Törmäkylä	017	1.7								x	x	x	
1408	vt 4	Vikajärvi - Korvala	508	4.0	x	x	x	x							
1415	vt 4	Paakkola - Hastinkangas	435	0.7		x	x	x	x	x	x	x	x	x	
1416	vt 21	Juoksenki - Turtola	124	2.6	x										
1417	vt 5	Puikkolan pt - Joutsijärvi	379	3.2	x	x	x	x	x						
1418	vt 4	Kemintie - Veitikanoja	449	3.1	x	x									
1419	vt 5	Tohmo - Javaruksen th	402	4.2	x	x									
1420	vt 4	Ivalo - Inari	558	4.0			x	x	x	x	x	x	x	x	
1421	vt 21	Kolari - Sieppijärvi	140	5.0			x	x	x	x	x	x	x	x	
1422	kt 79	Meltaus - Lohiniva	014	2.0					x	x	x	x	x	x	
1423	kt 78	Portimo	217	6.2						x	x	x	x	x	



130KARKKILA

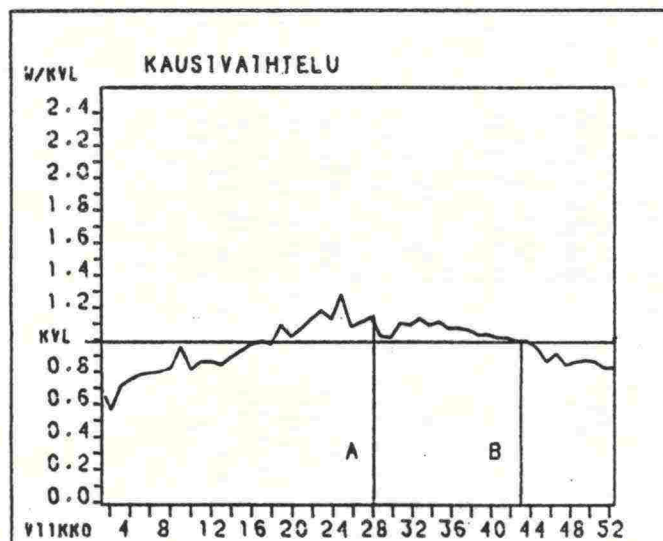
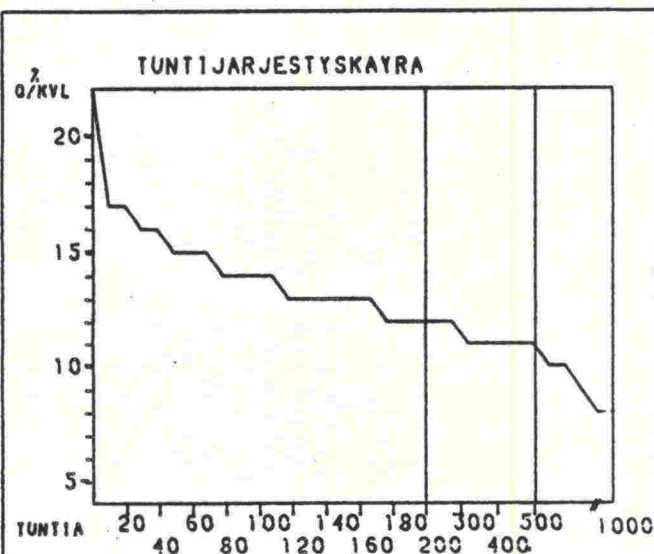
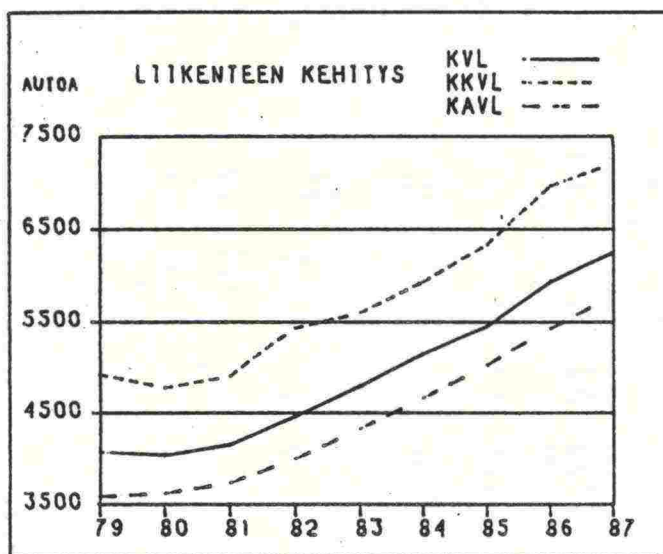
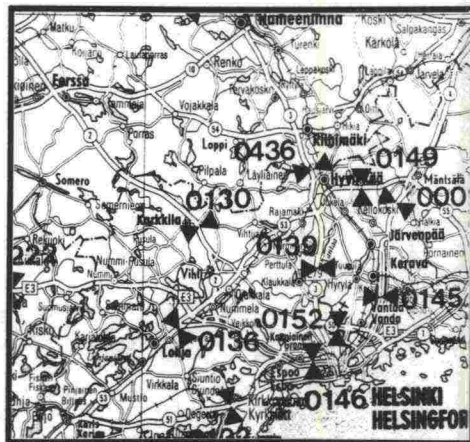
1987

VT2 TIEOSA 13 ETAISYYS 2.4 KM

KVL 6258 B' (SU/KESA) 1.20  
 KAVL 5799  
 KKVL 7208 D' 1.15

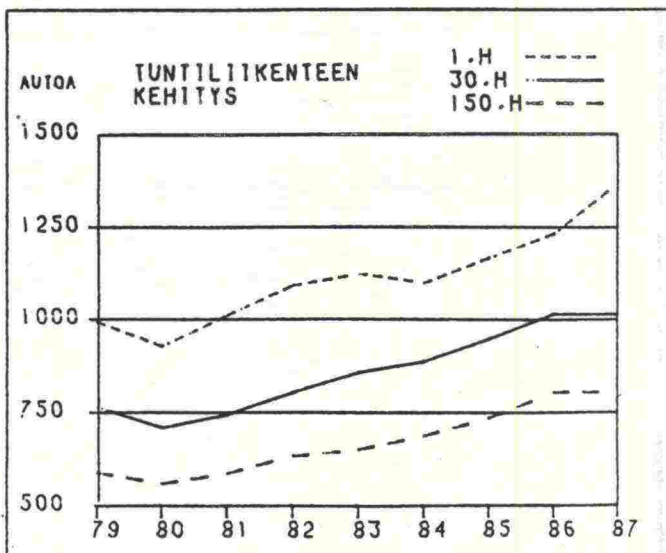
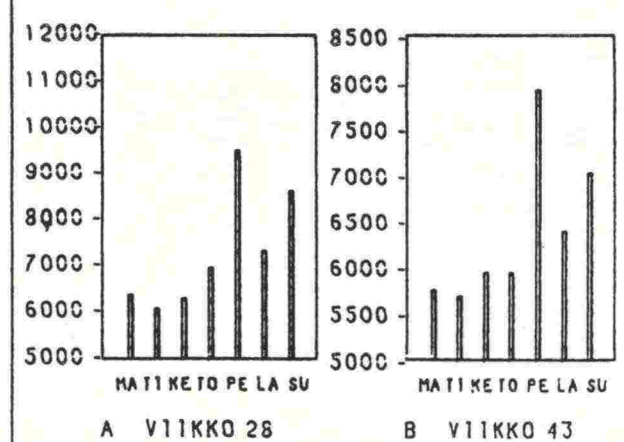
## ARKILIIKENTEN KOOSTUMUS

HA 81 % PA 6 %  
 LA 3 % KAIP 5 %  
 KAPP 1 % KATP 4 %



H	Q	PE-SU (*)	KERTYMA	HTK
1	1369	100	0.1	0.91
30	1014	83	0.1	0.91
100	672	93	4.3	0.91
150	807	97	6.1	0.82
300	688	89	11.0	0.96
1000	496	67	28.3	0.77
5000	211	42	87.9	0.51

(\*) MONTAKO % KO-ENSIMMAISISTA TUNNEISTA OSUUS PE-SU:ILLE



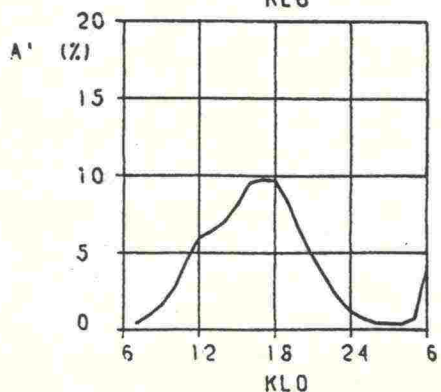
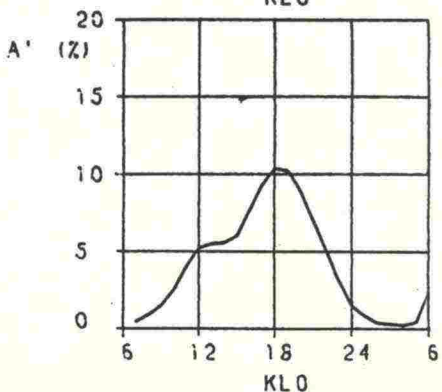
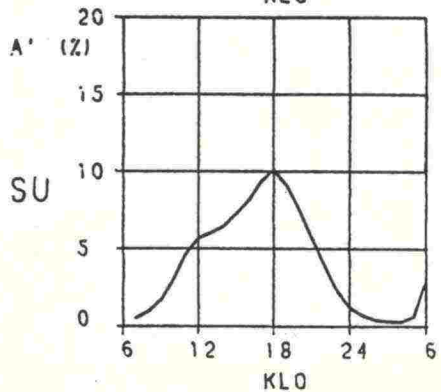
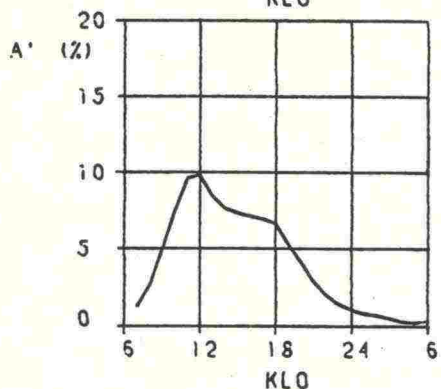
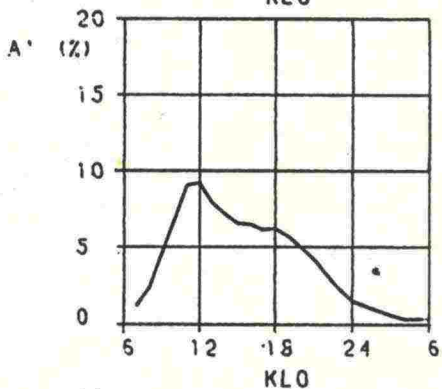
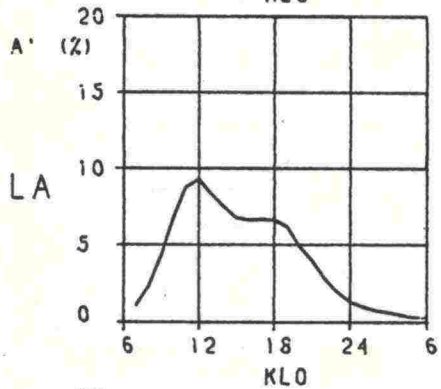
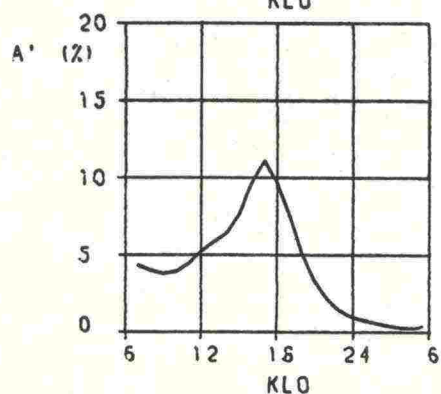
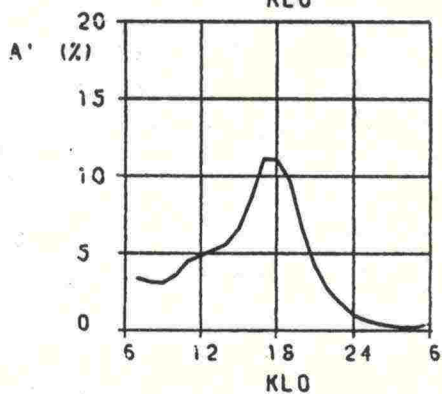
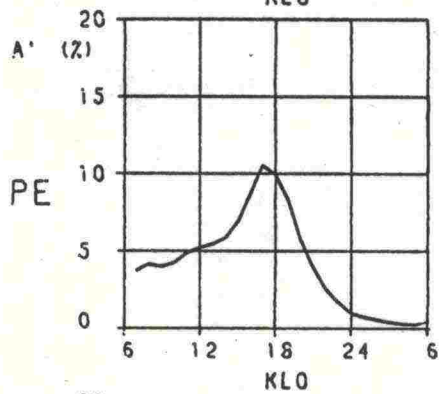
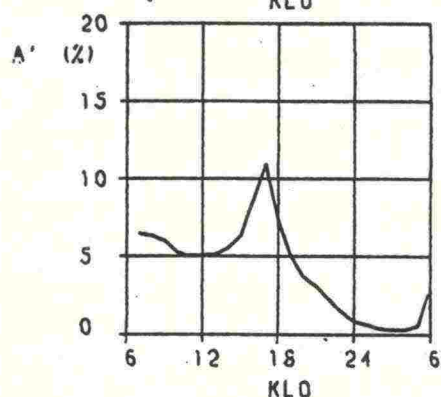
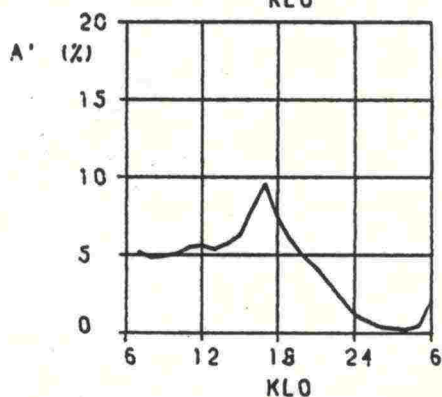
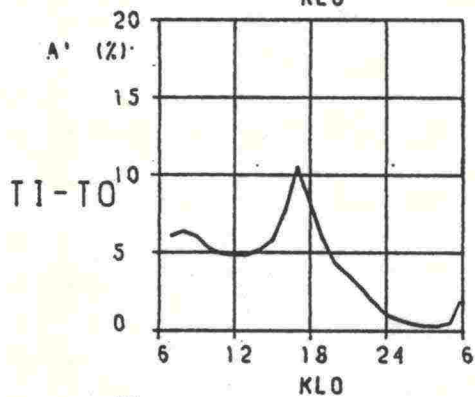
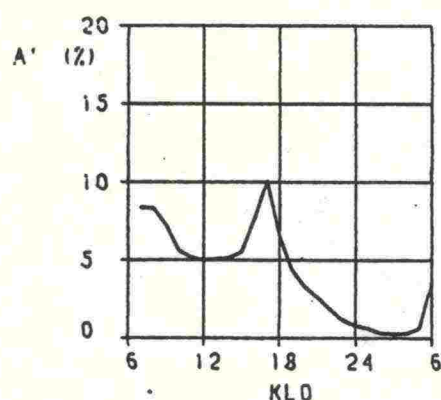
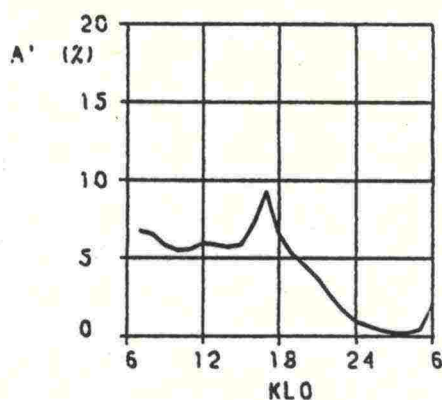
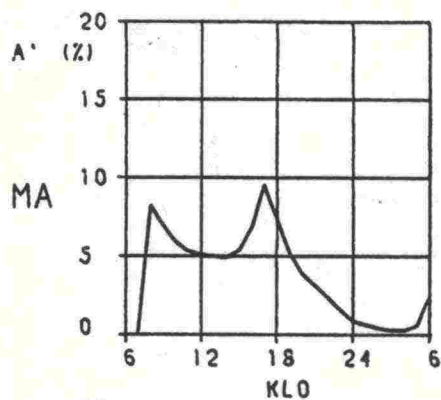
# TUNTIVAIHTELUT

9

HELMIKUU

HEINAKUU

LOKAKUU





132KIRKKONUMMI

1987

KT51 TIEOSA 9 ETAISYYS 1.1 KM

KVL 7991 B' (SU/KESA) 1.15

KAVL 7652

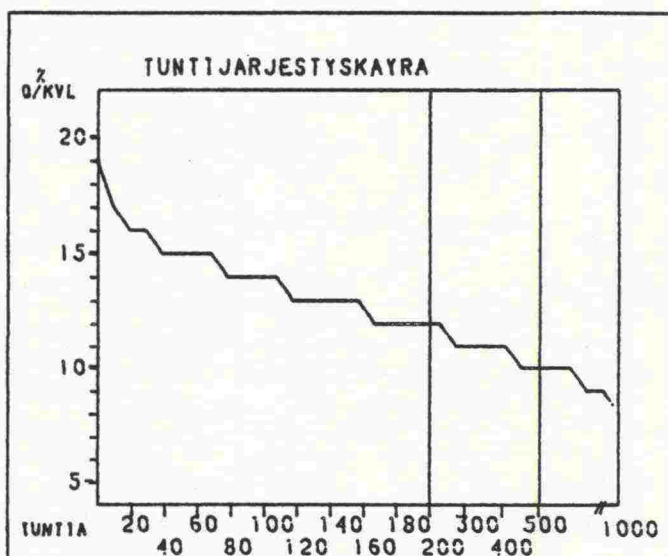
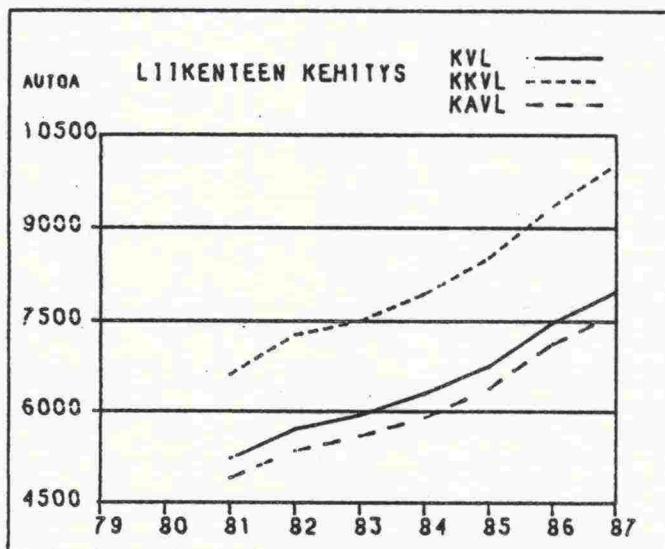
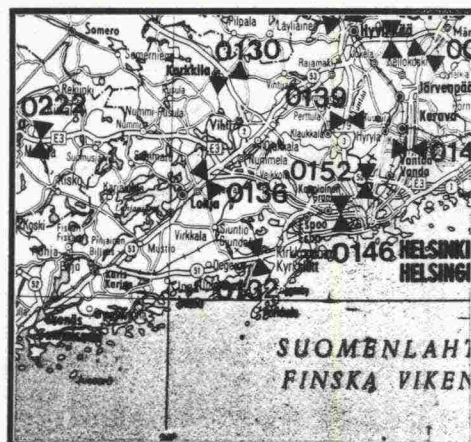
KKVL 10028 D' 1.25

## ARKILIIKENTEEN KOOSTUMUS

HA 81 % PA 9 %

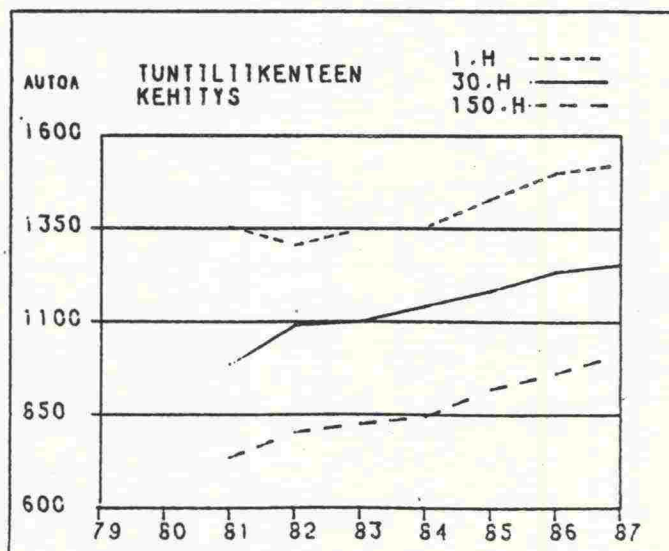
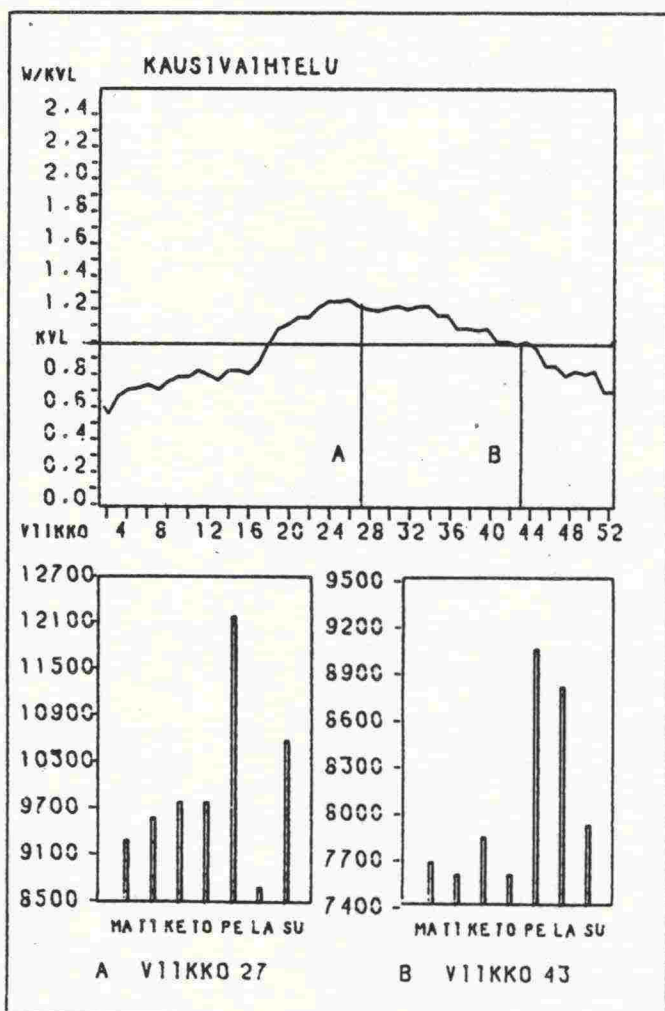
LA 1 % KAIP 4 %

KAPP 2 % KATP 3 %



H	Q	PE-SU (*)	KERTYMA	HTK
1	1524	100	0.1	0.95
30	1255	87	1.1	-
100	1109	96	4.2	-
150	1014	96	6.0	-
300	848	89	10.8	0.91
1000	658	61	28.4	0.88
5000	244	40	89.7	-

(\*) MONTAKO % KO-ENSIMMAISISTA TUNNEISTA OSUUS PE-SU-ALLE

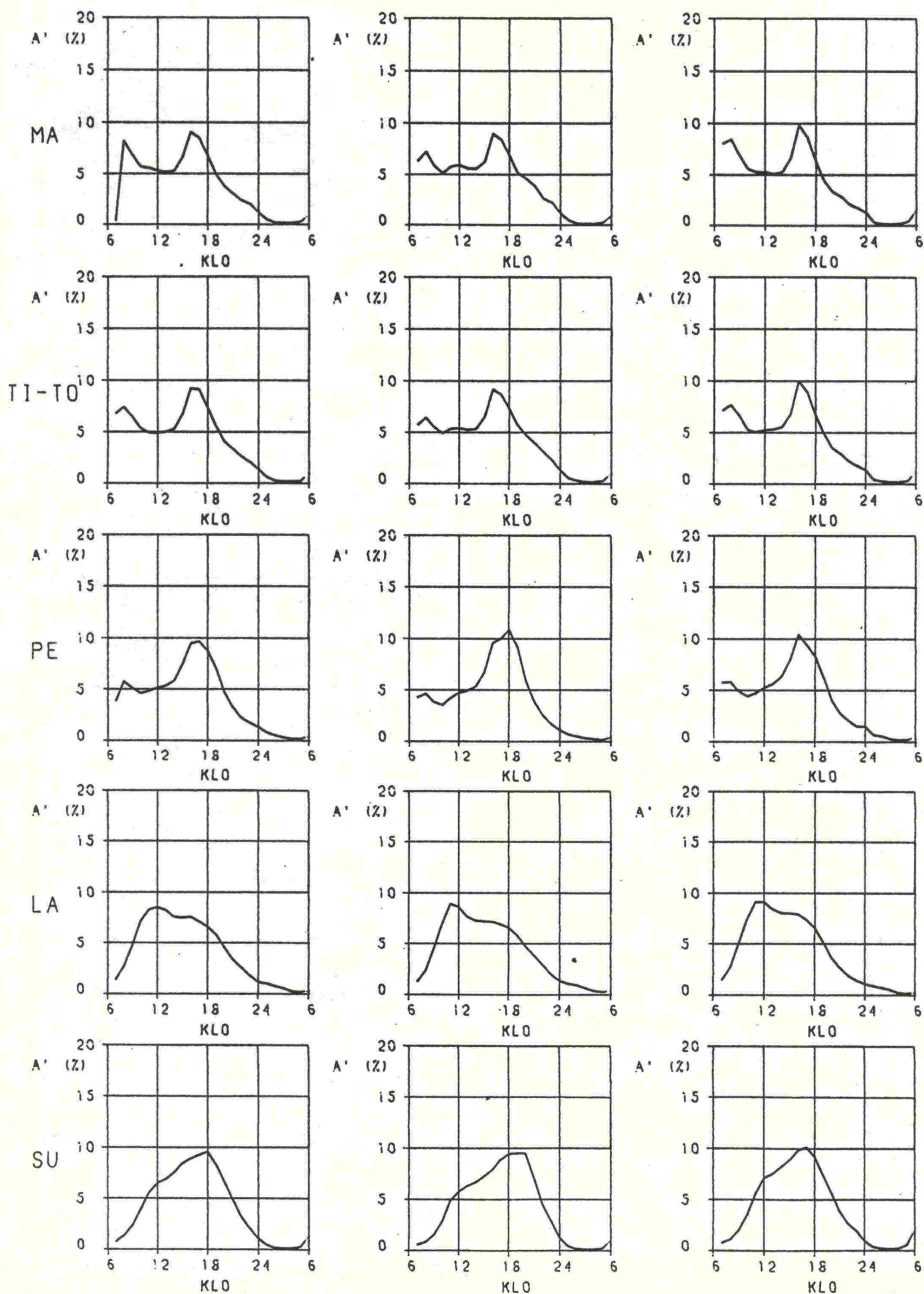


## TUNTIVAIHTELUT

HELMIKUU

HEINAKUU

LOKAKUU





139KL AUKKALA

1987

VT3

TIEOSA 105 ETAISYYS 3.0 KM

KVL 13155

B' (SU/KESA) 1.01

KAVL 13353

KKVL 13964

D' 1.06

## ARKILIIKENTEN KOOSTUMUS

HA 77 %

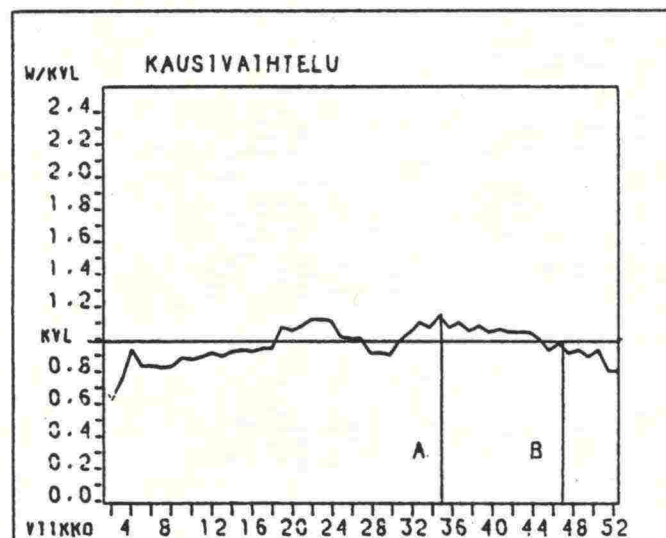
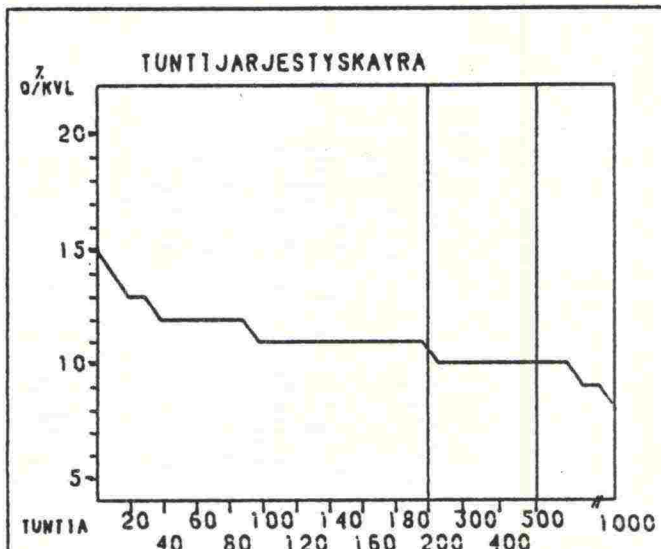
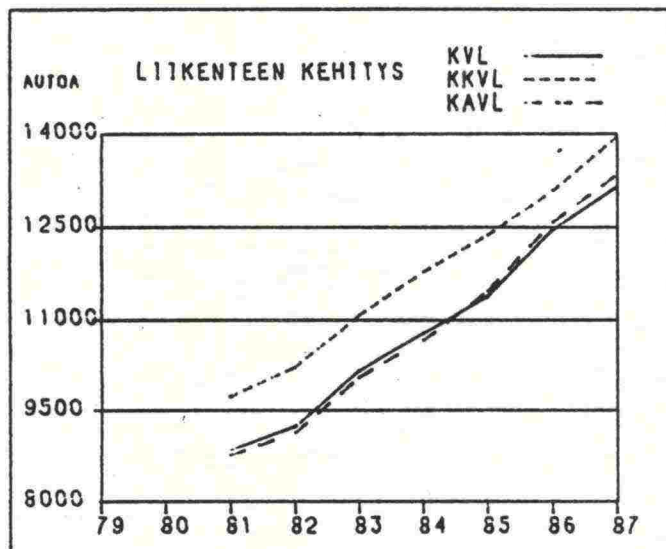
PA 4 %

LA 2 %

KAIP 4 %

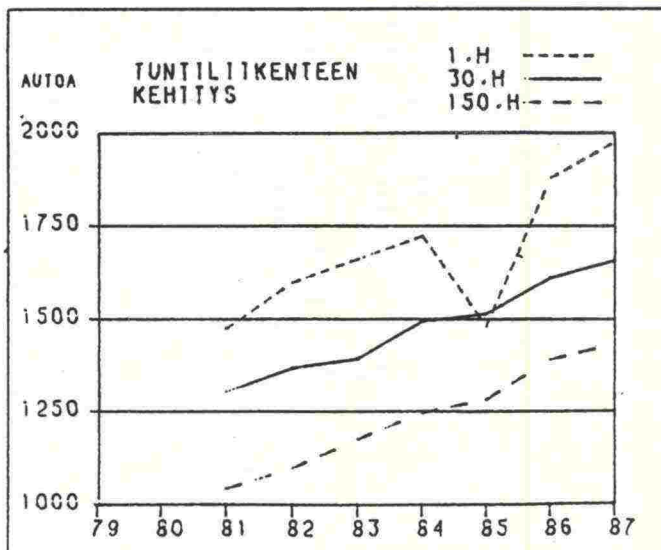
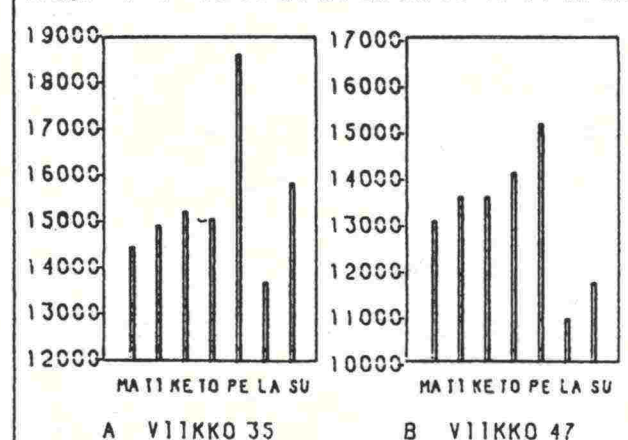
KAPP 2 %

KATP 11 %



H	Q	PE-SU (•)	KERTYMA	HTK
1	1978	100	0.1	0.95
30	1659	93	1.1	0.93
100	1497	77	3.4	0.93
150	1434	66	4.9	0.86
300	1326	52	9.2	0.87
1000	1065	39	26.4	0.94
5000	435	41	87.5	0.83

(•) MONTAKO % KO-ENSIMMAISISTA TUNNEISTA OSUU PE-SU-LLE

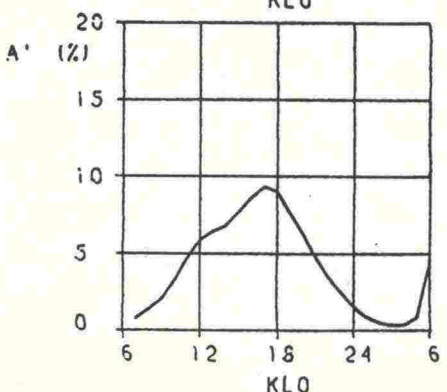
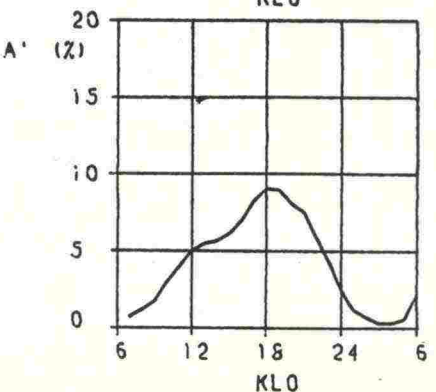
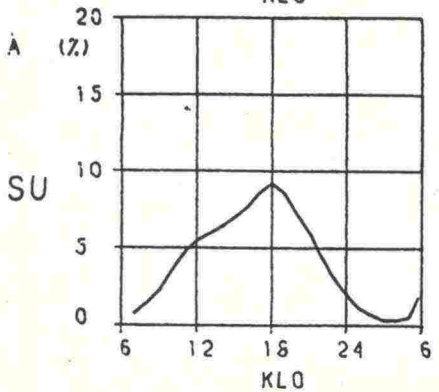
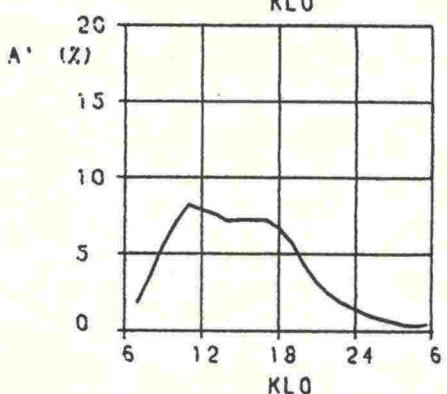
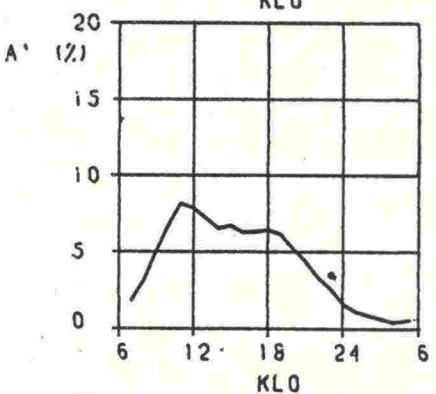
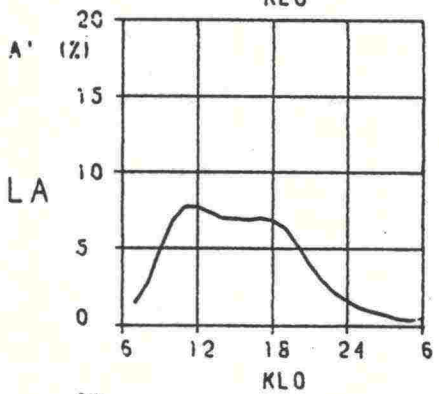
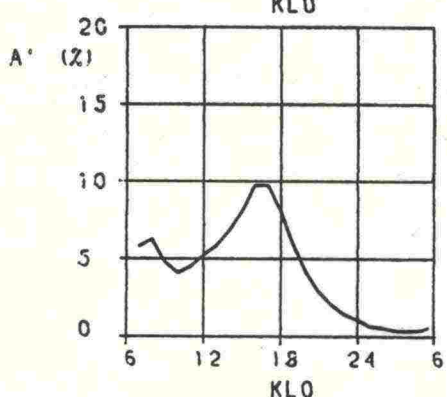
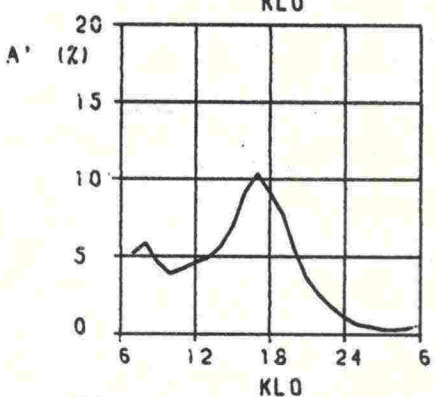
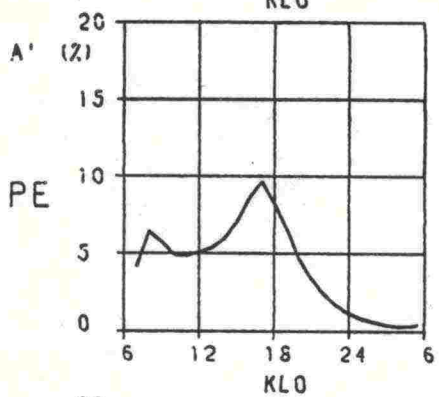
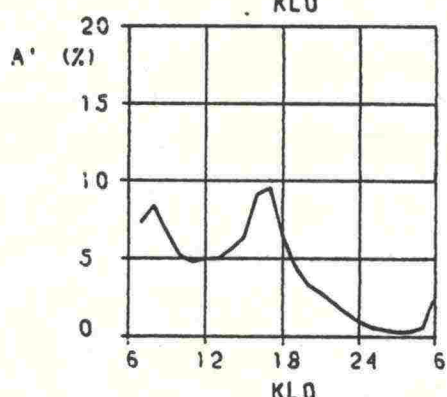
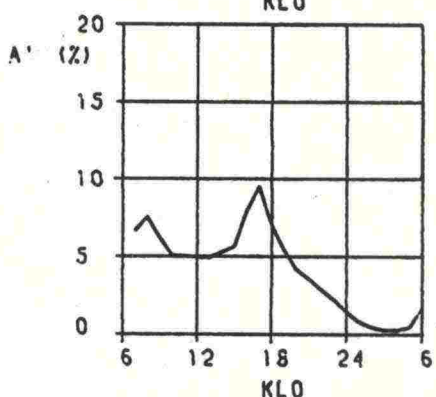
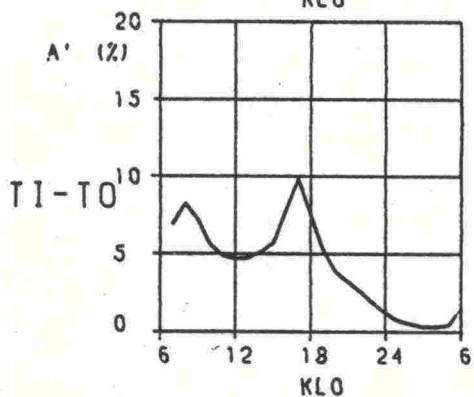
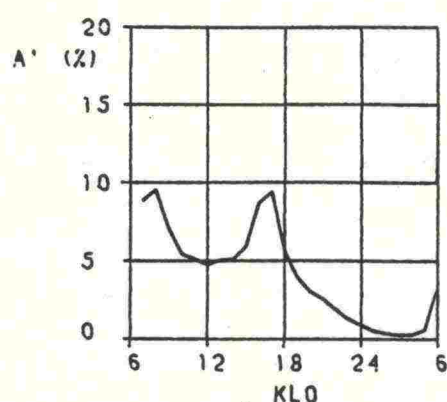
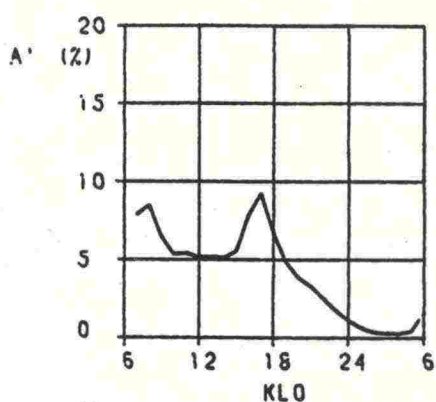
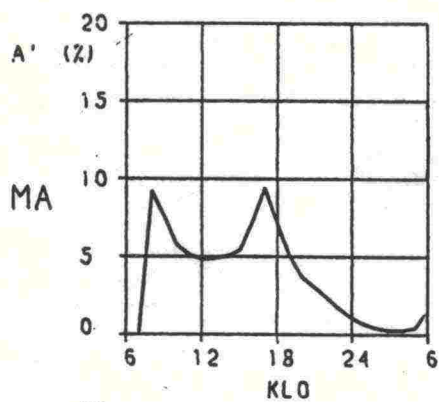


## TUNTIVAIHTELUT

HELMIKUU

HEINAKUU

LOKAKUU





145VAARALA

1987

VT4

TIEOSA 104 ETAISYYS 2.5 KM

KVL 28278

B' (SU/KESA) 0.92

KAVL 30423

KKVL 28547

D' 1.00

## ARKILIIKENTEEN KOOSTUMUS

HA 59%

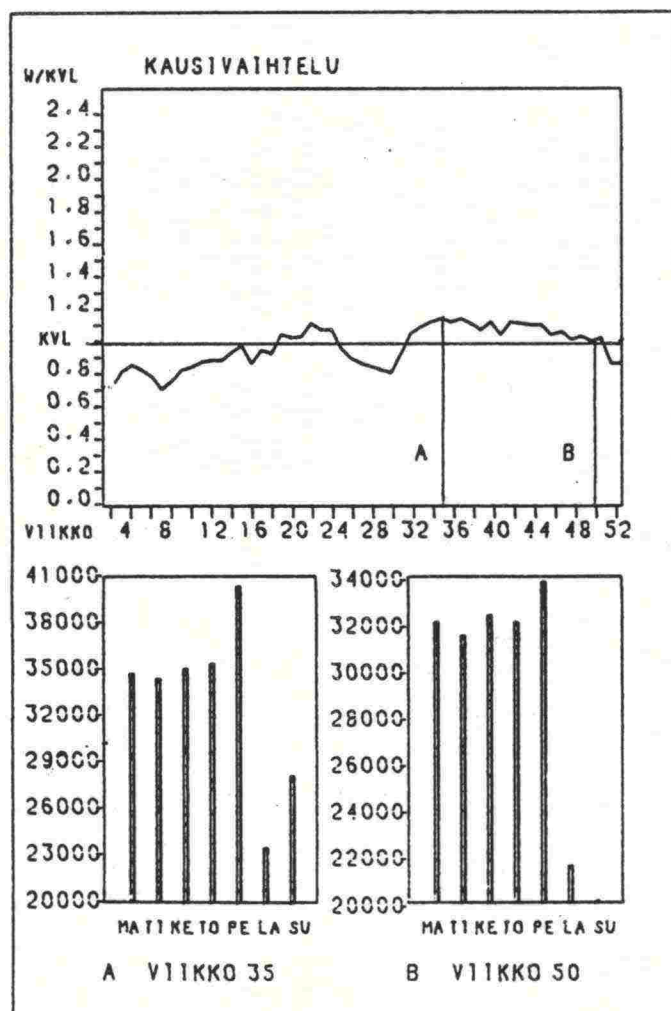
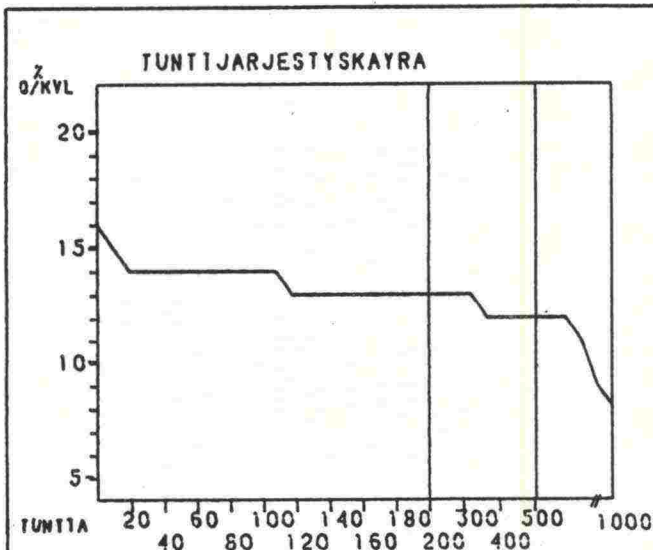
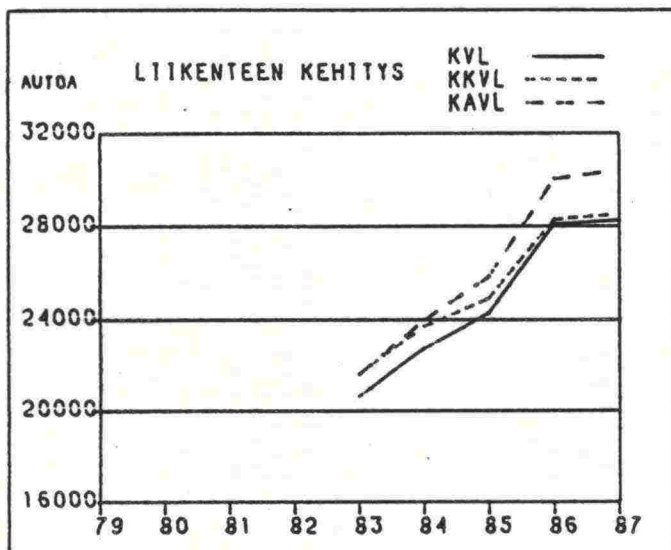
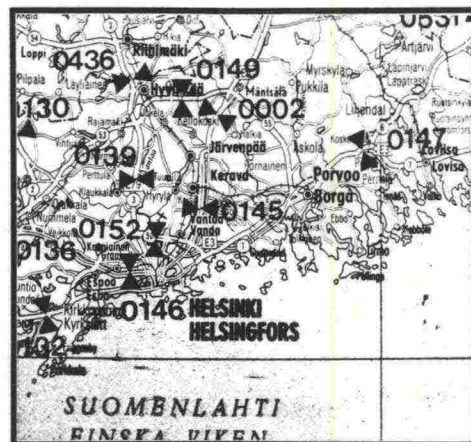
PA 2%

LA 7%

KAIP 13%

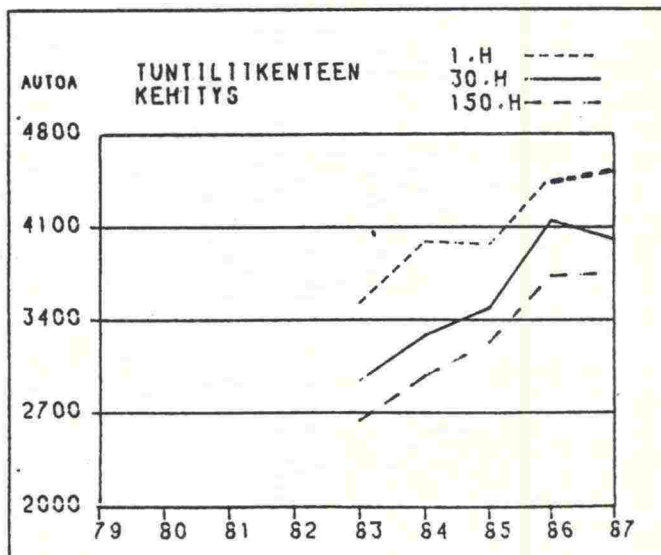
KAPP 7%

KATP 12%



H	Q	PE-SU (%)	KERTYMA	HTK
1	4476	100	0.0	0.95
30	4010	47	1.2	0.95
100	3833	33	3.9	0.93
150	3760	92	5.7	0.90
300	3469	28	11.0	-
1000	2401	26	30.6	0.83
5000	906	39	87.6	0.68

(\*) MONTAKO 2 KO-ENSIMMAISISTA TUNNEISTA OSUU PE-SU:LE



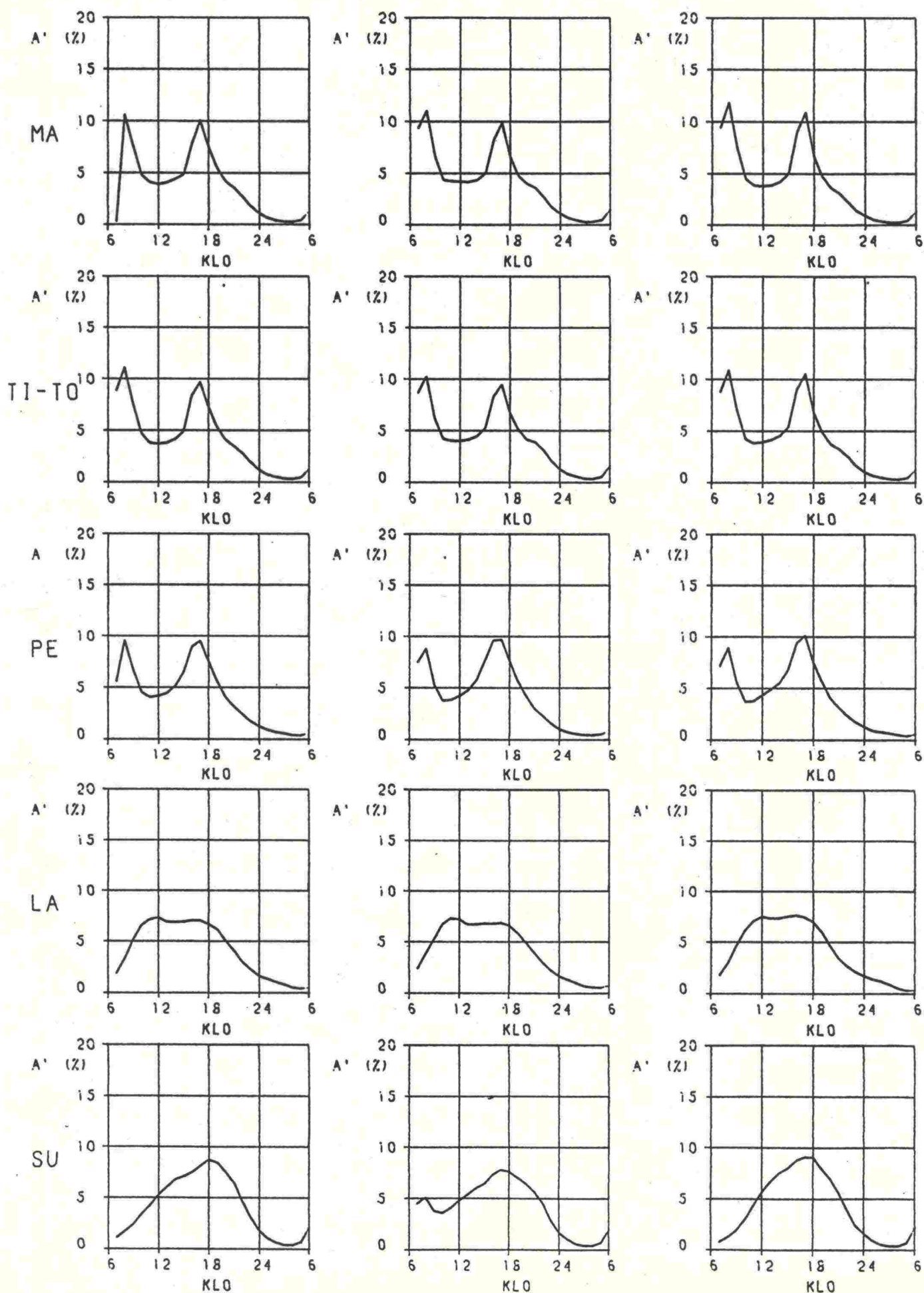


## TUNTIVAIHTELUT

HELMIKUU

HEINAKUU

LOKAKUU



147KOSKENKYLÄ

1987

VT7

TIEOSA 15 ETAISYYS 3.1 KM

KVL 9086

B' (SU/KESA) 1.31

KAVL 8103

KKVL 12788

D' 1.40.

## ARKILIIKENTEEEN KOOSTUMUS

HA 80 %

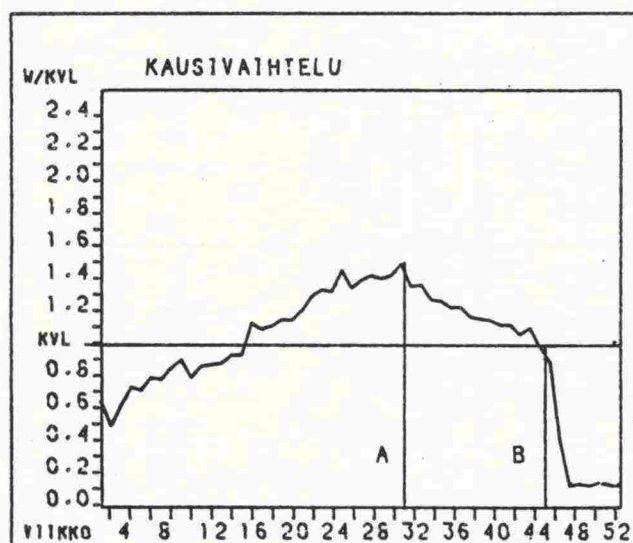
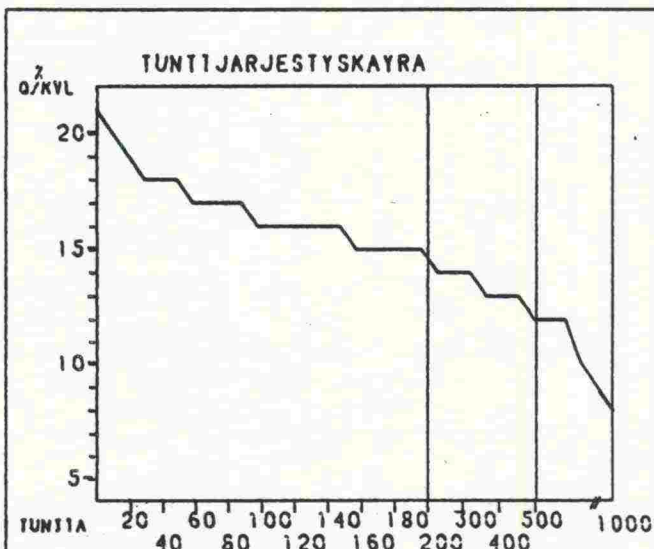
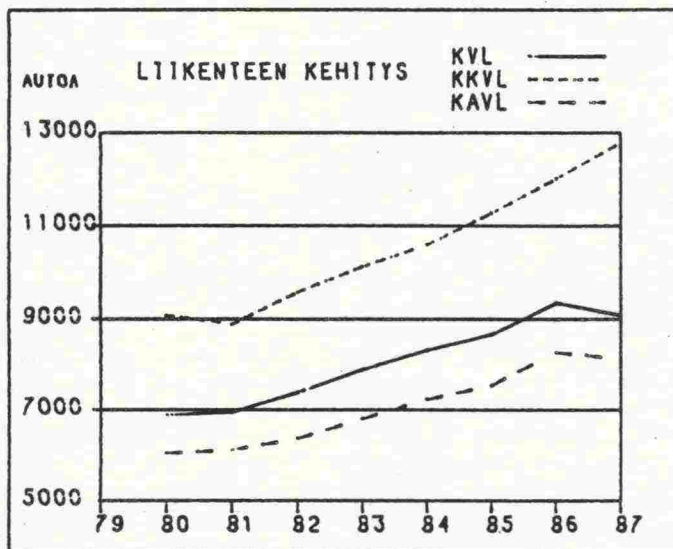
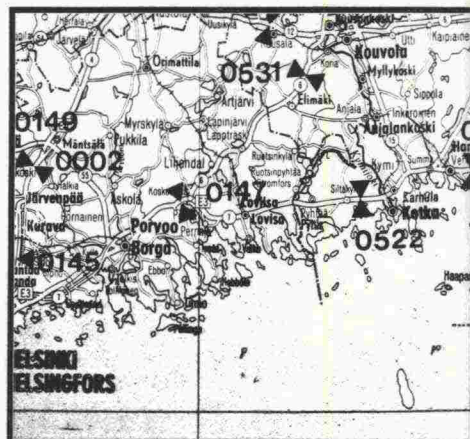
PA 6 %

LA 2 %

KAIP 4 %

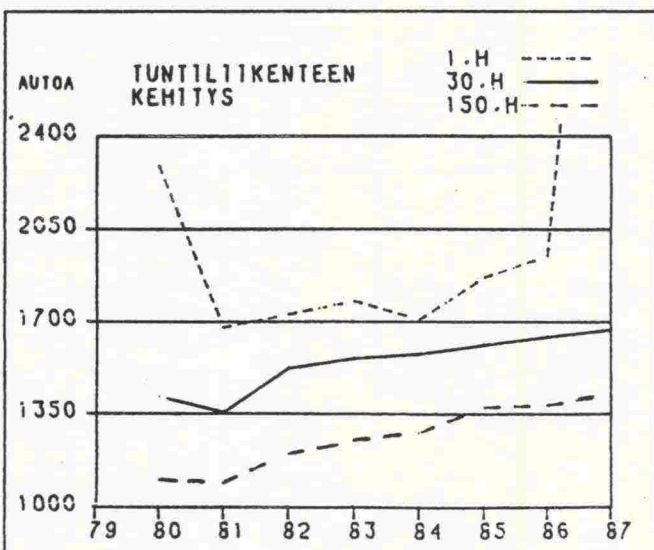
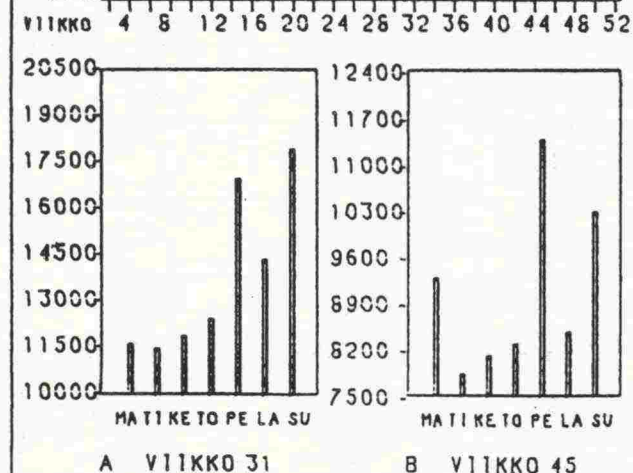
KAPP 2 %

KATP 6 %



H	O	PE-SU (*)	KERTYMA	HTK
1	1877	100	0.1	0.98
30	1673	100	1.6	0.91
100	1495	95	4.9	0.87
150	1424	93	7.1	0.93
300	1180	93	30.0	0.91
1000	769	74	32.1	0.90
5000	215	42	91.1	0.85

(\*) MONTAKO % KO-ENSIMMAISISTA TUNNEISTA OSUUS PE-SU:ALLE



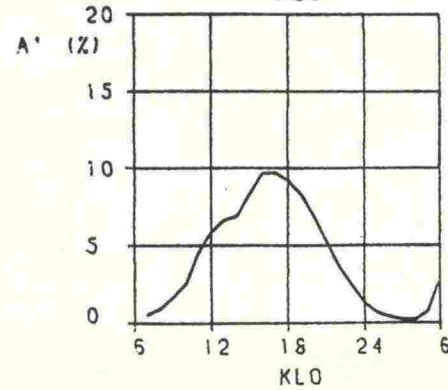
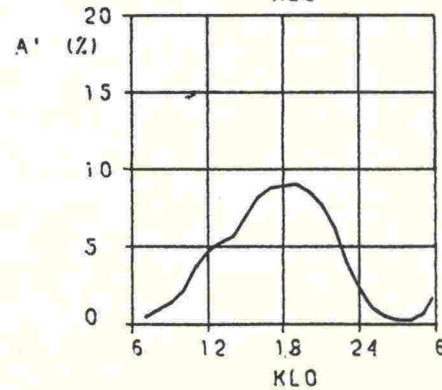
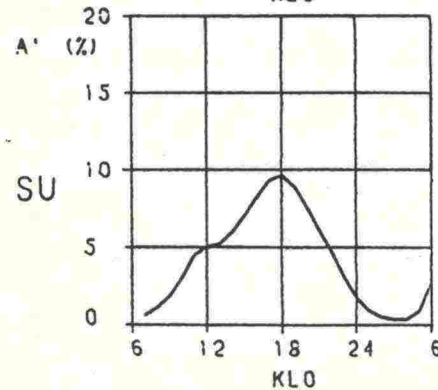
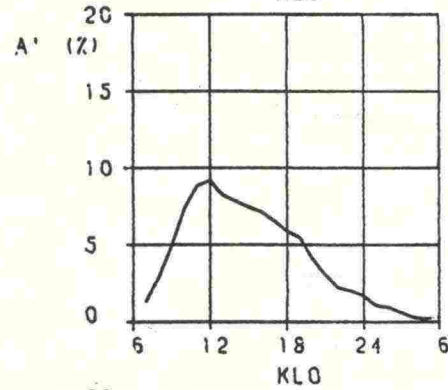
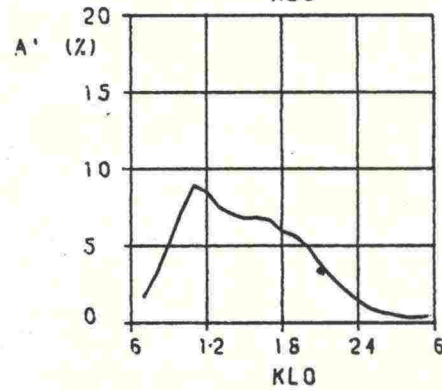
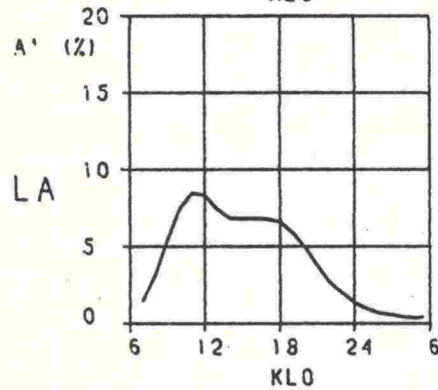
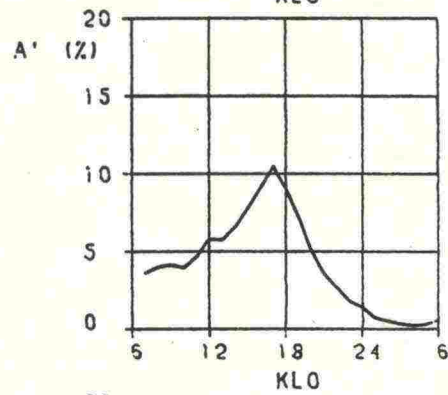
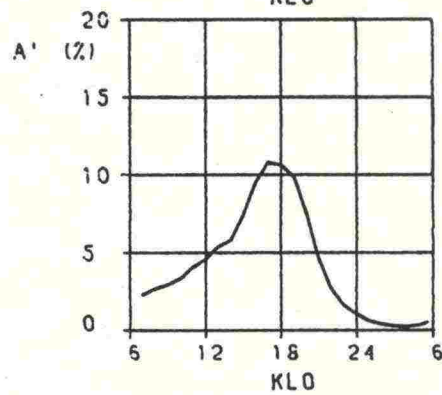
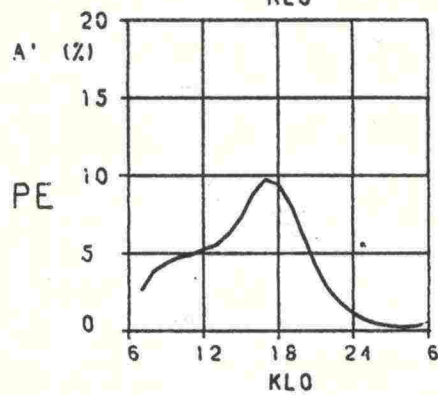
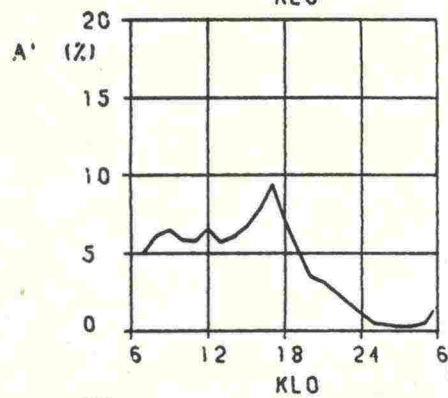
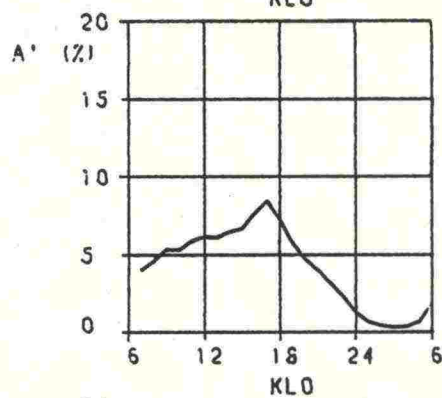
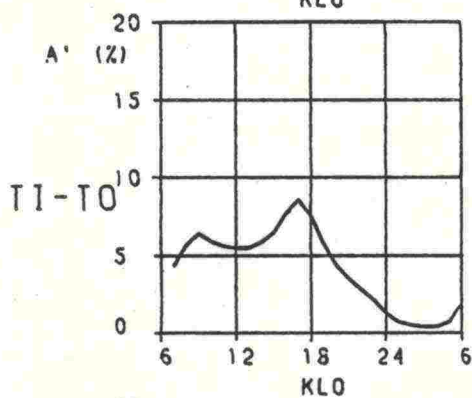
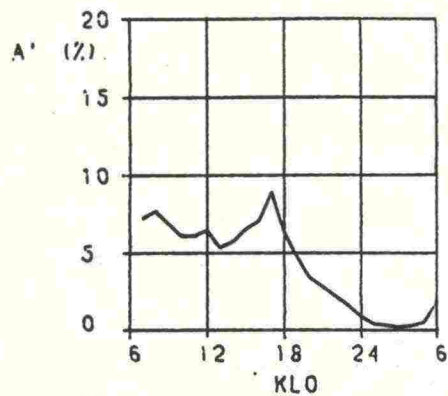
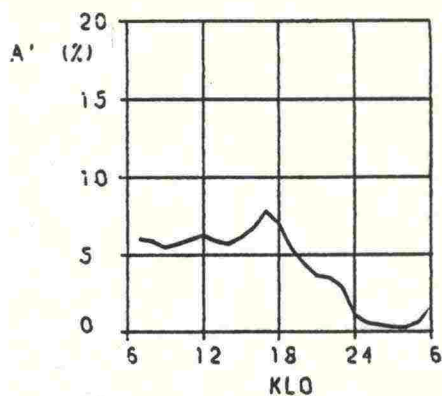
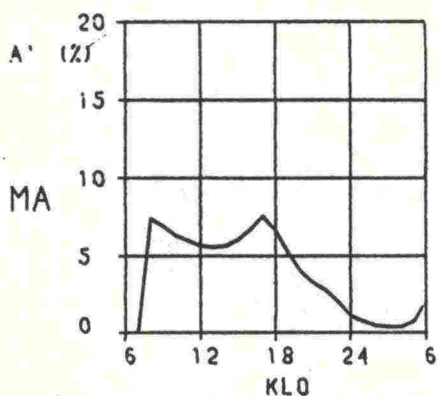


## TUNTIVAIHTELUT

HELMIKUU

HEINAKUU

LOKAKUU





149HYVINKÄÄ/MÄNTSÄLÄ 1987  
KT53 TIEOSA 34 ETAISYYS 5.3KM

KVL 2839 B' (SU/KESA) 1.28

KAVL 2568

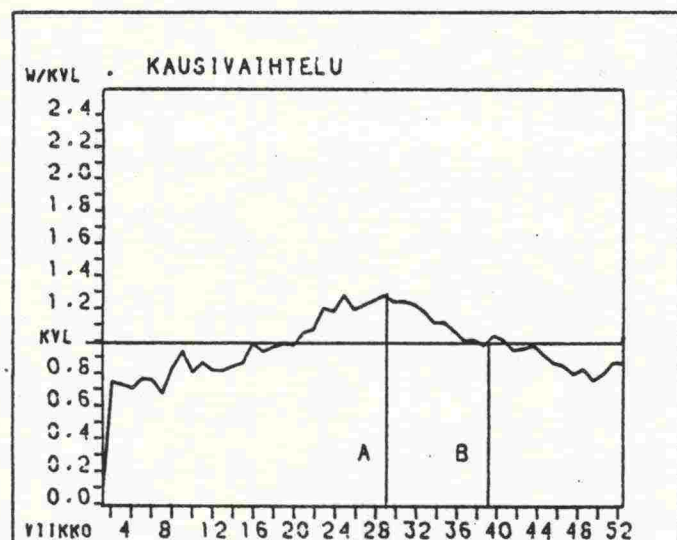
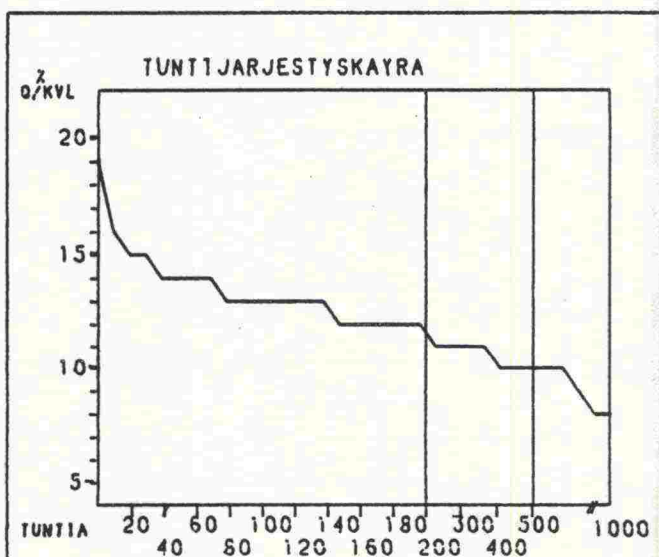
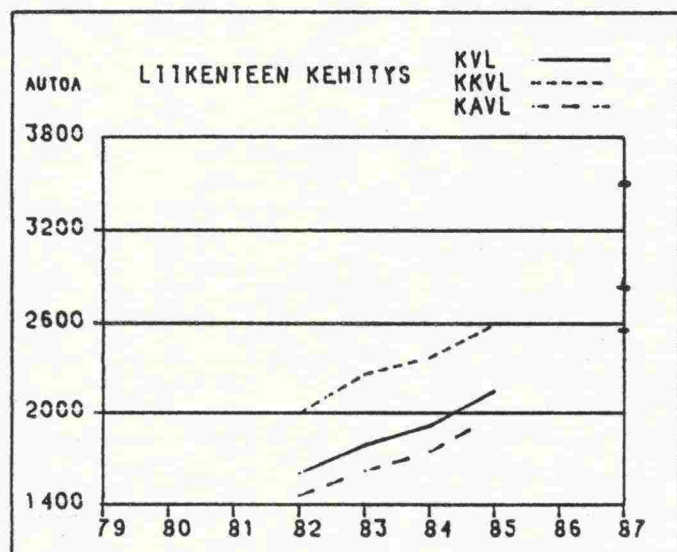
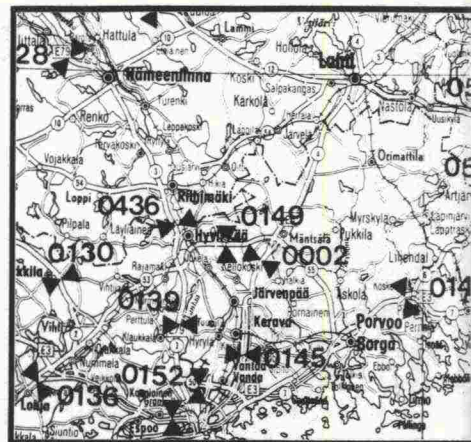
KKVL 3530 D' 1.24

### ARKILIIKENTEEEN KOOSTUMUS

HA 74% PA 8%

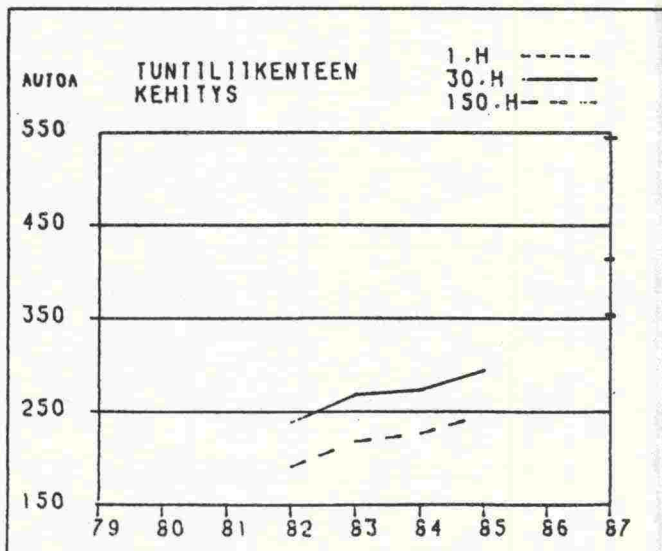
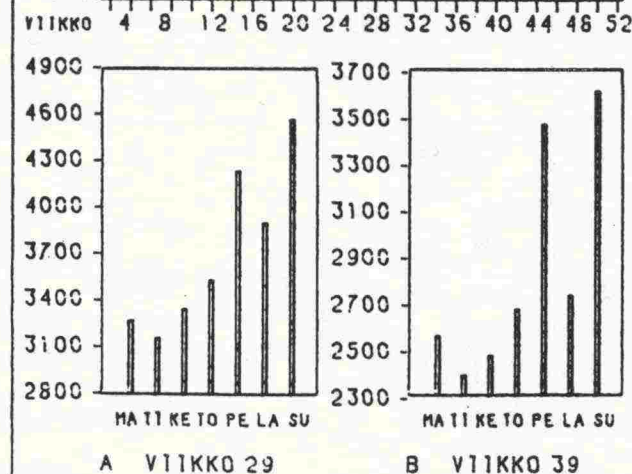
LA 1% KAIP 7%

KAPP 2% KATP 8%



H	Q	PE-SU (•)	KERTYMA	HTK
1	544	100	0.1	0.89
30	416	100	1.3	0.75
100	372	96	3.9	0.85
150	351	95	5.7	0.82
300	298	93	10.3	0.93
1000	221	74	27.3	0.97
5000	98	43	86.5	0.84

(•) MONTAKO Z KO-ENSIMMAISISTA TUNNEISTA OSUU PE-SU-LLE

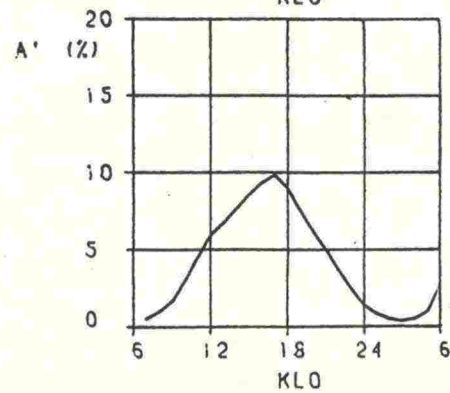
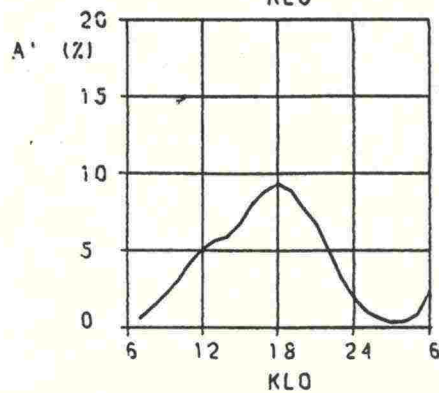
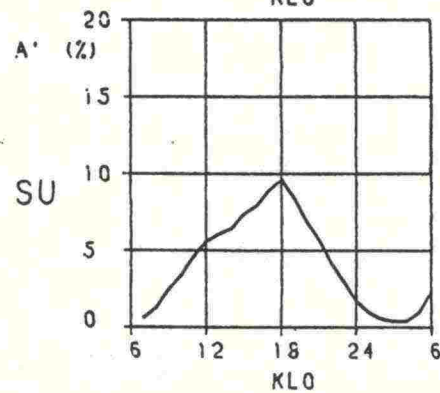
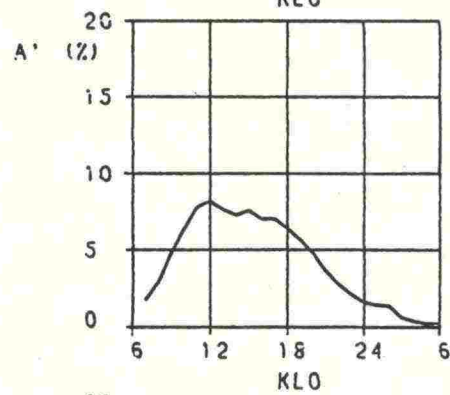
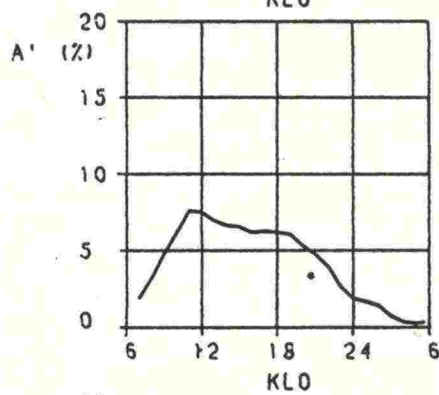
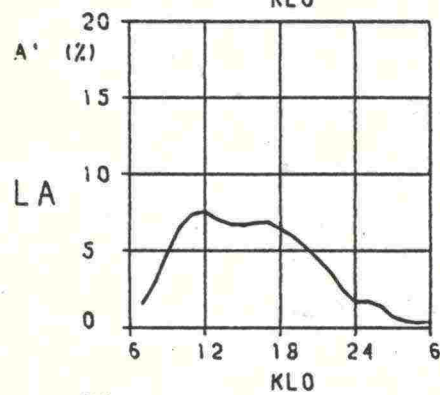
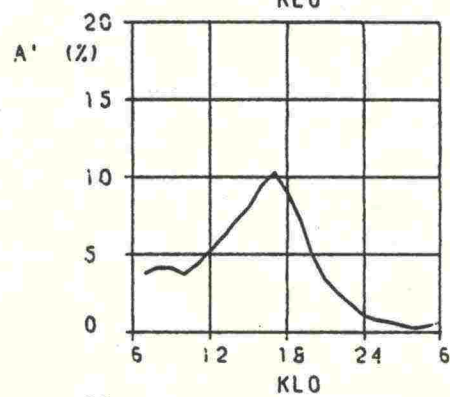
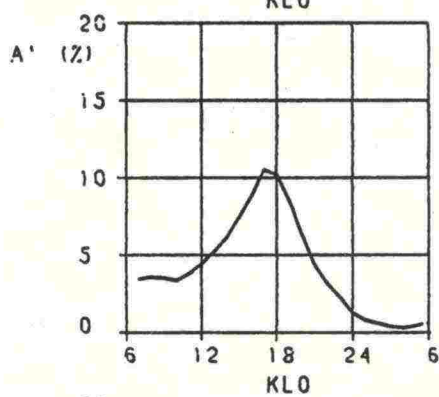
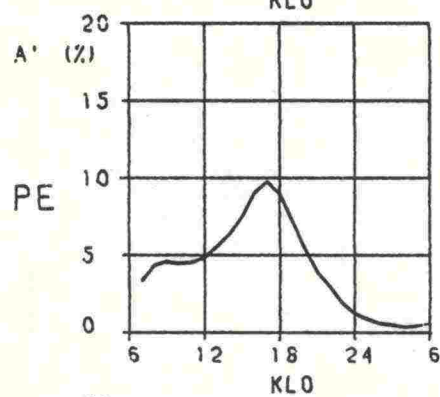
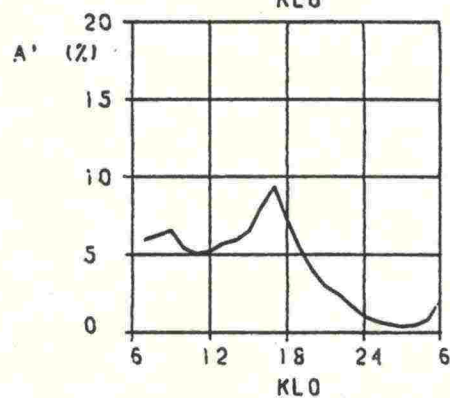
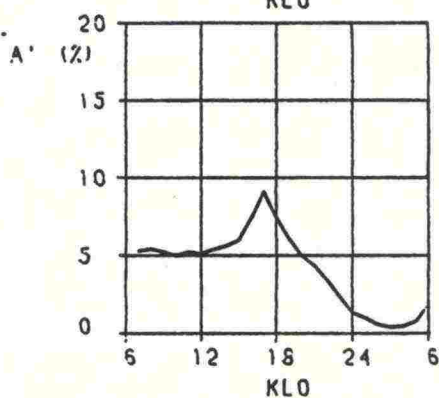
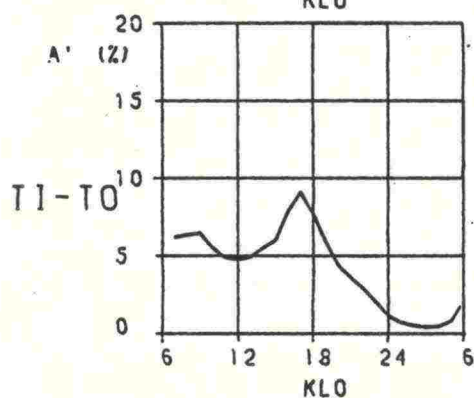
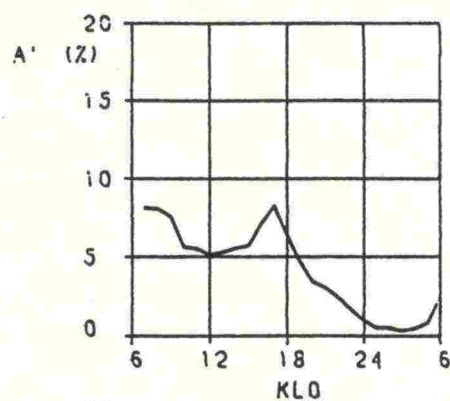
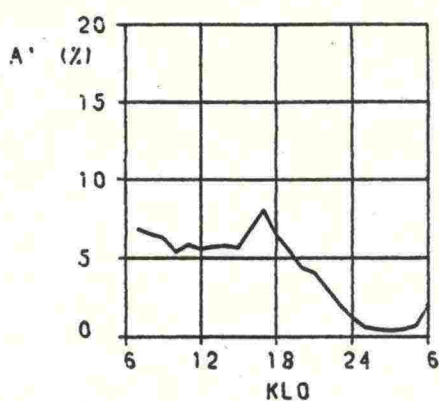
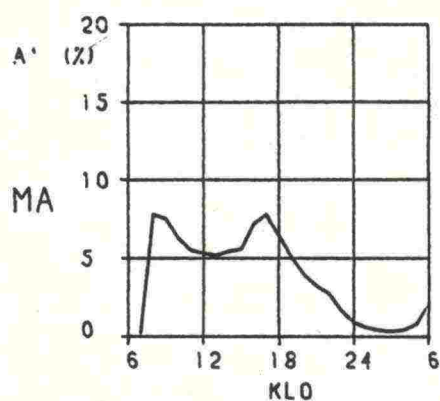


## TUNTIVAIHTELUT

HELMIKUU

HEINAKUU

LOKAKUU





152KEHÄ-III VEROMIES<sup>1987</sup>

KT50 TIEOSA 6 ETAISYYS 4.1 KM

KVL 29236

B' (SU/KESA) 0.76

KAVL 31942

KKVL 29795

D' 1.01

## ARKILIIKENTEEN KOOSTUMUS

HA 70%

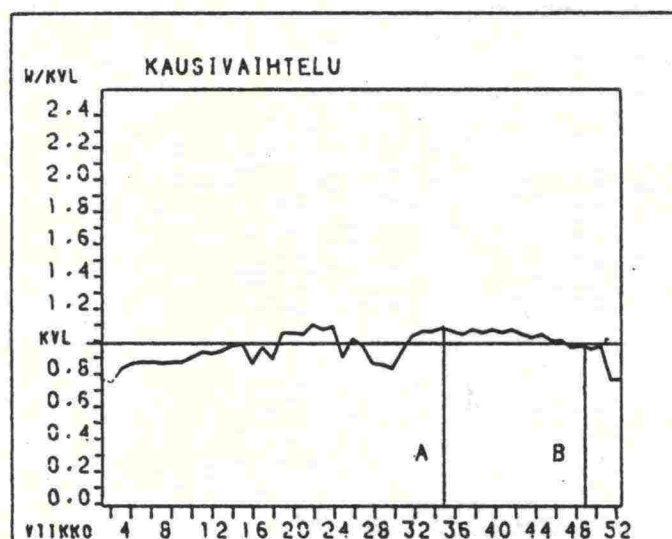
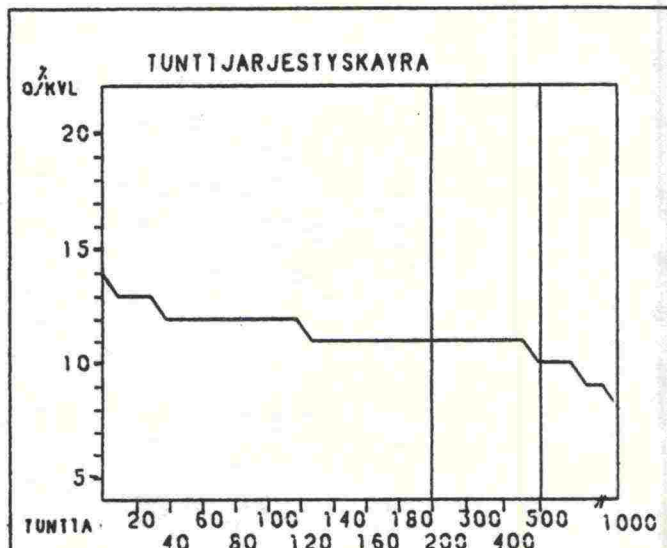
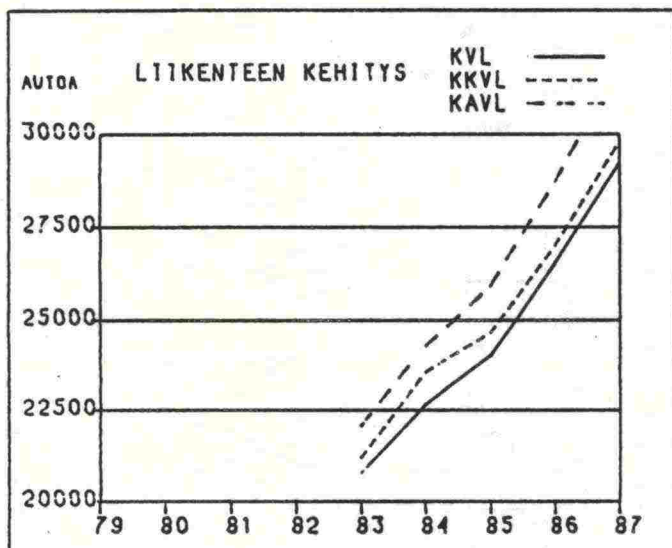
PA 7%

LA 3%

KAIP 8%

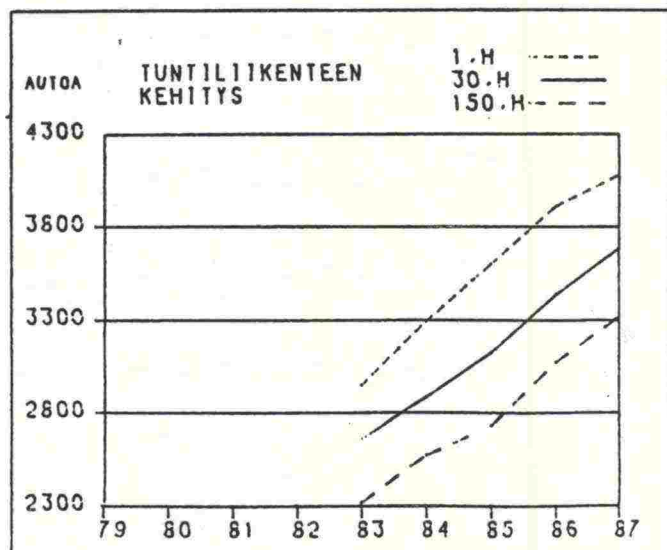
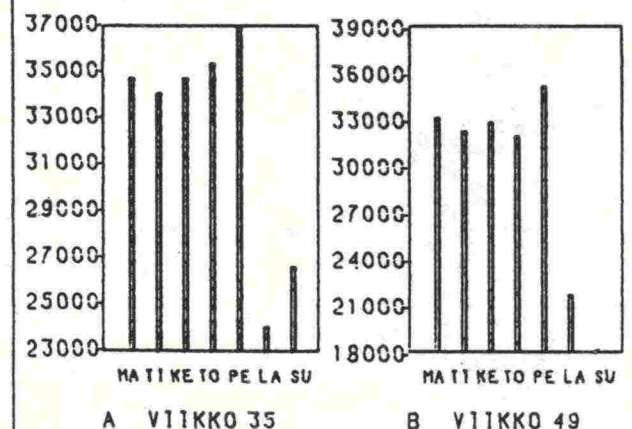
KAPP 3%

KATP 9%



H	Q	PE-SU (*)	KERTYMA	HTK
1	4082	100	0.1	0.97
30	3659	63	1.1	0.86
100	3420	41	3.4	0.79
150	3320	33	5.0	0.88
300	3115	25	9.5	0.90
1000	2353	23	27.2	0.79
5000	900	38	88.3	0.82

(\*) MONTAKO Z KO-ENSIMMAISISTA TUNNEISTA OSUU PE-SU:ALLE



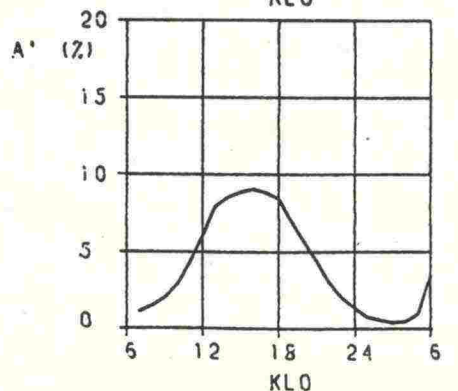
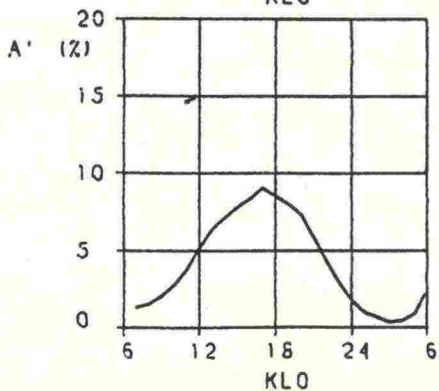
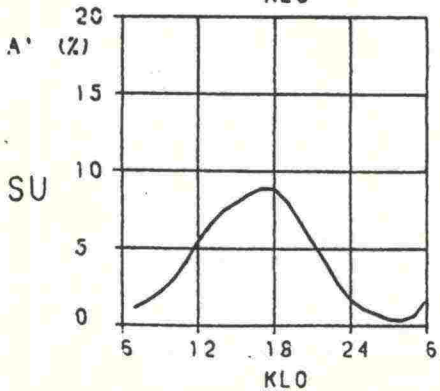
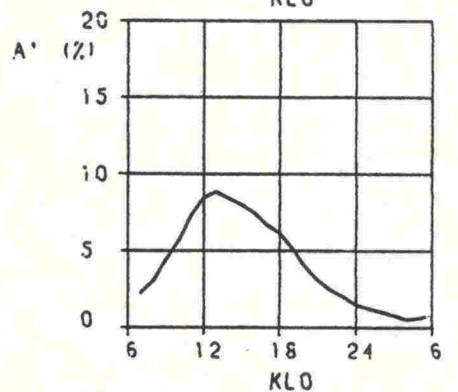
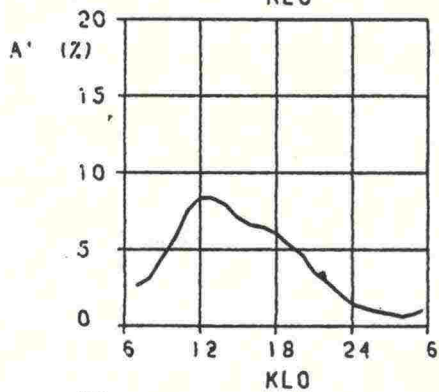
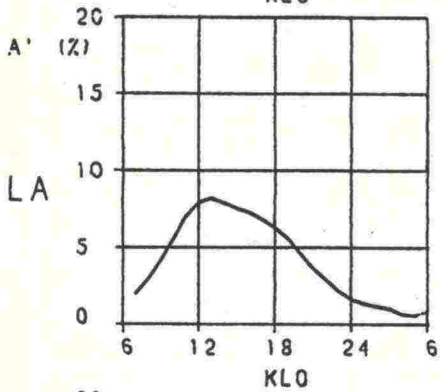
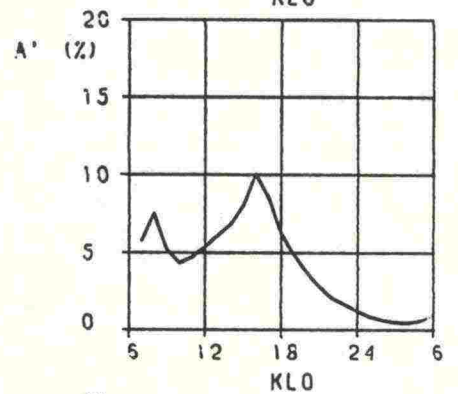
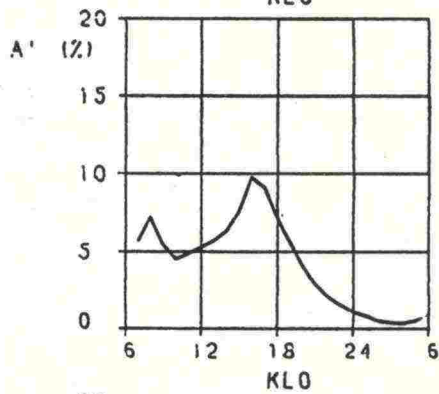
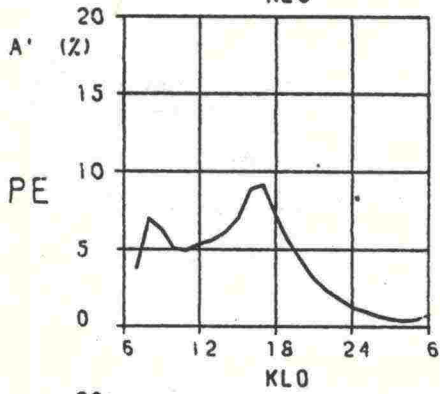
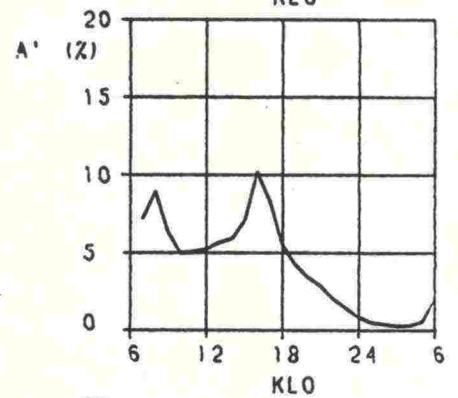
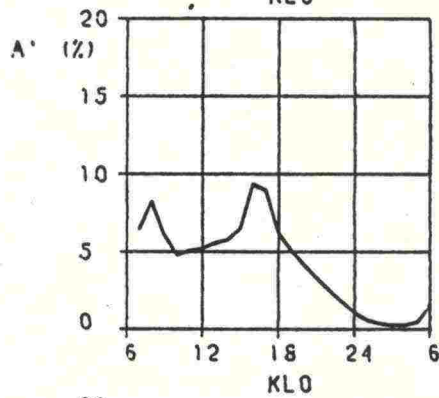
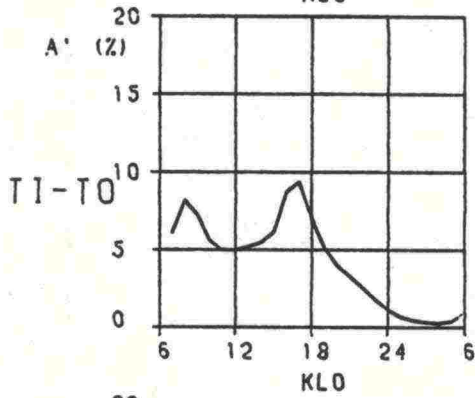
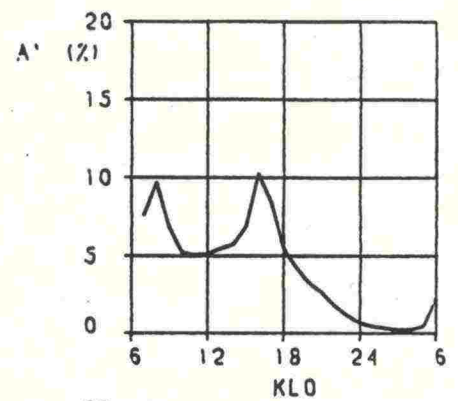
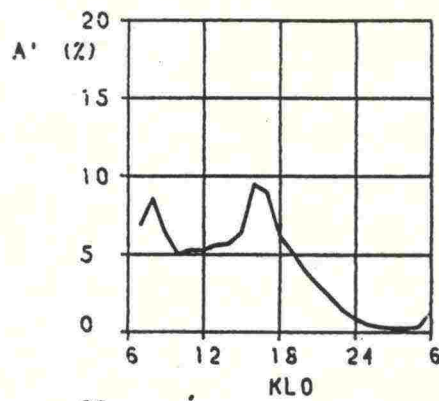
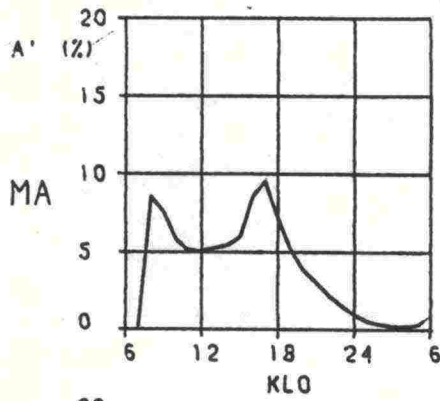


## TUNTIVAIHTELUT

HELMIKUU

HEINAKUU

LOKAKUU



222MUURLA

VT1

TIEOSA 21

ETAISYYS 3.3KM

1987

KVL 5978

B' (SU/KESA) 1.14

KAVL 5662

KKVL 7217

D' 1.20

## ARKILIIKENTEN KOOSTUMUS

HA 79%

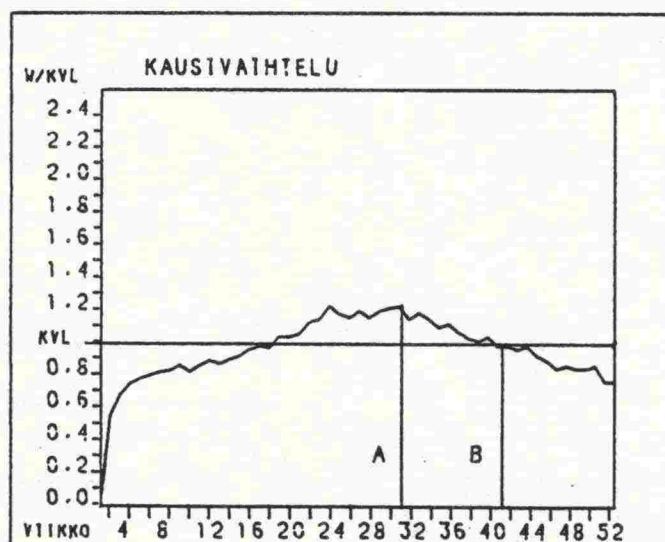
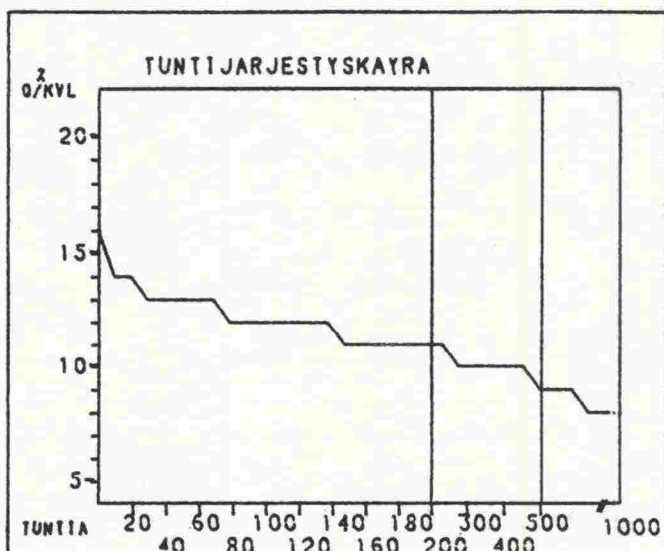
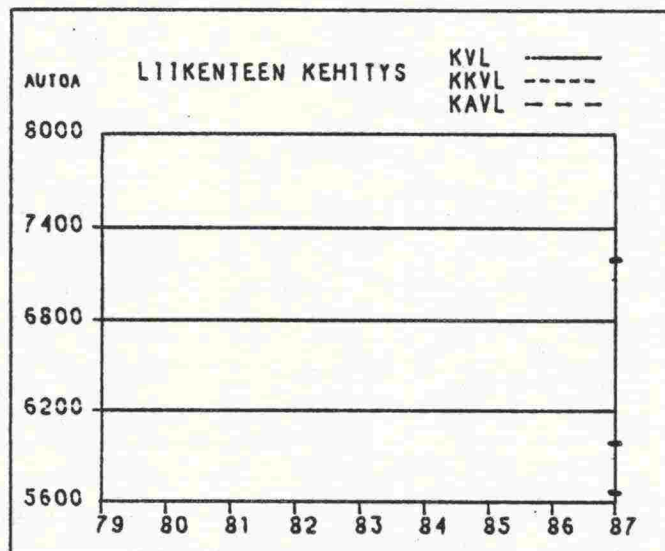
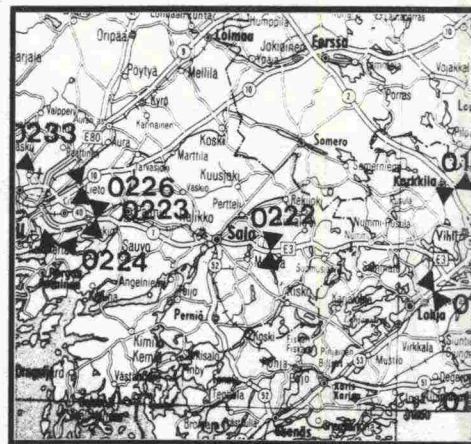
PA 6%

LA 2%

KAIP 4%

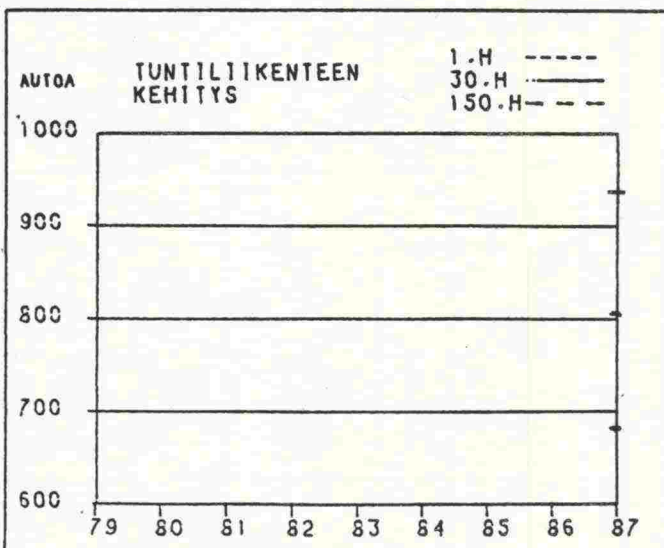
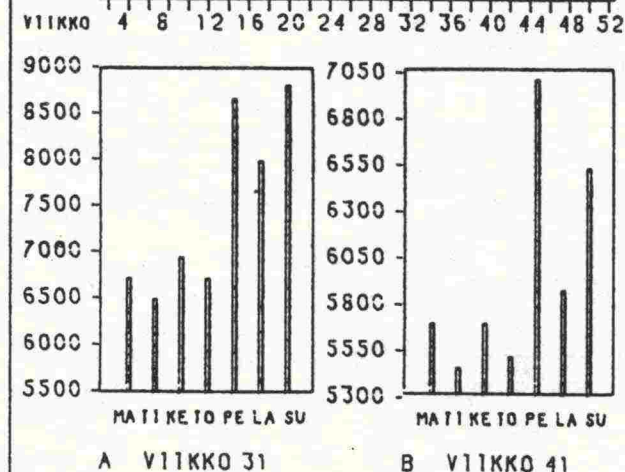
KAPP 2%

KATP 7%



H	Q	PE-SU (KERTYMA)	HTK
1	940	100	0.1
30	805	97	1.2
100	728	95	3.6
150	683	96	5.2
300	587	96	9.6
1000	451	68	25.6
5000	208	42	87.0

(\*) MONTAKO 2 KO-ENSIMMAISTISTA TUNNEISTA OSUU PE-SU: LLE



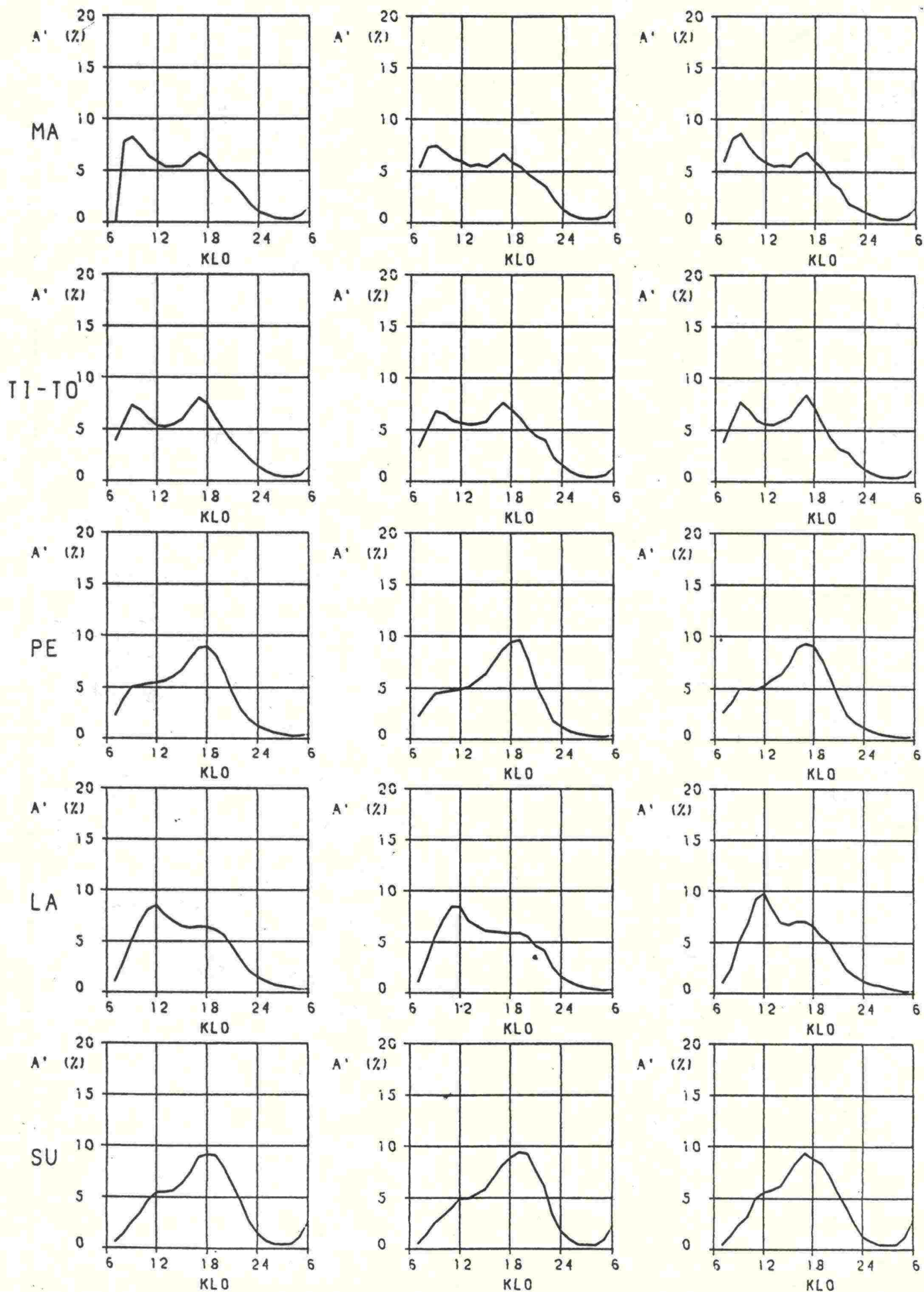


## TUNTIVAIHTELUT

HELMIKUU

HEINAKUU

LOKAKUU





223PIIKKO

1987

VT1 TIEOSA 30 ETAISYYS 5.0KM

KVL 13439

B' (SU/KESA) 1.01

KAVL 13384

KKVL 15399

D' 1.14

## ARKILIIKENTEEN KOOSTUMUS

HA 80 %

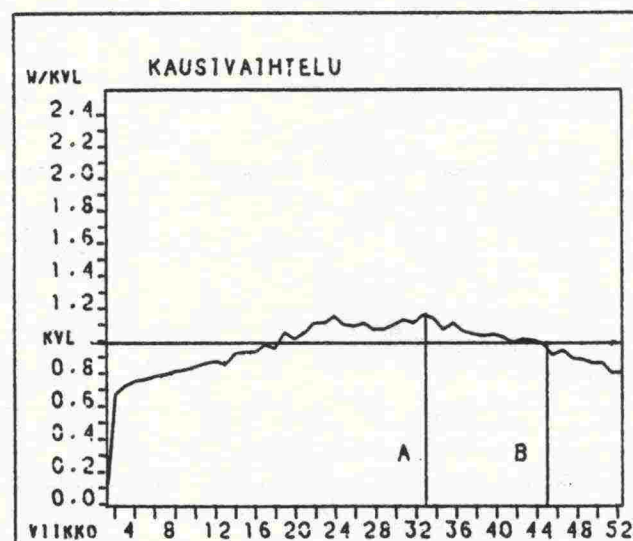
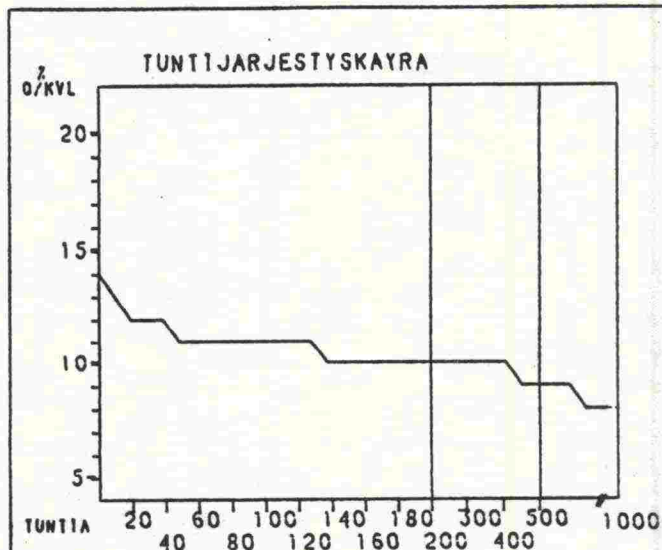
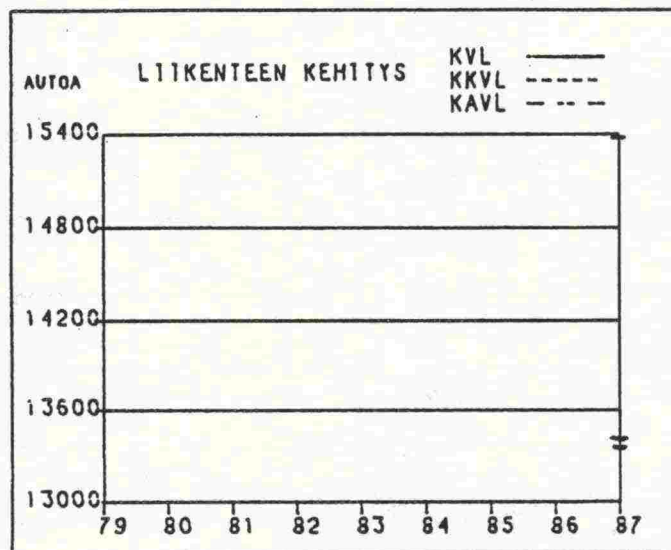
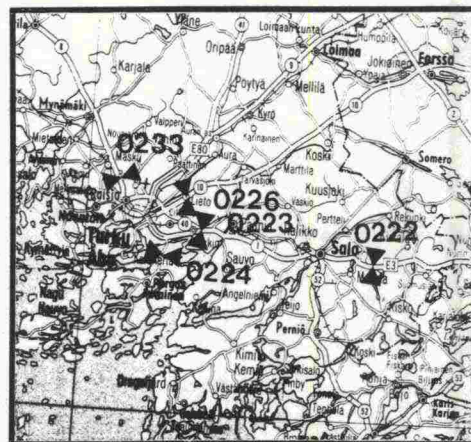
PA 8 %

LA 2 %

KAIP 4 %

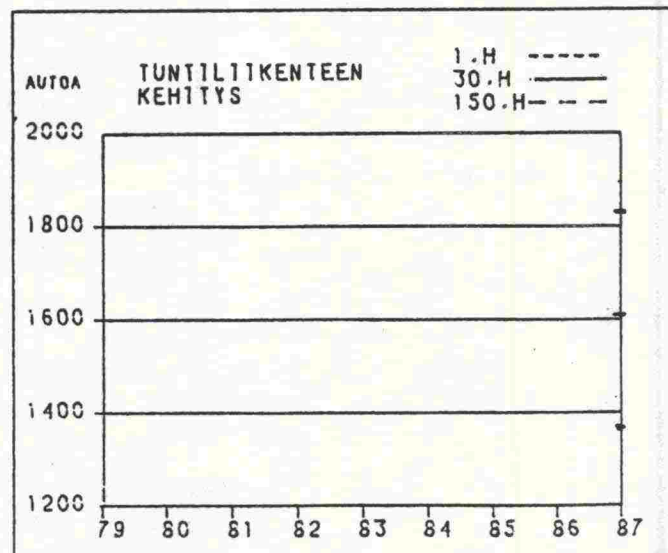
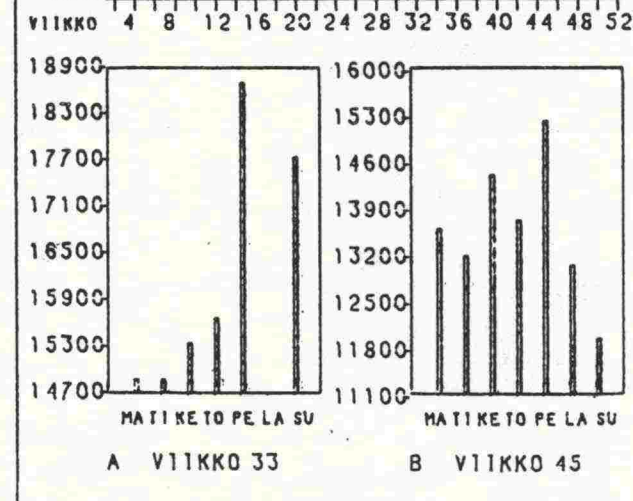
KAPP 2 %

KATP 4 %



H	O	PE-SU (*)	KERTYMA	HTK
1	1823	100	0.1	0.95
30	1606	98	1.0	0.98
100	1443	91	3.2	0.92
150	1369	85	4.6	-
300	1286	69	6.7	0.90
1000	1039	48	24.9	0.87
5000	509	40	87.6	0.83

(\*) MONTAKO % KO-ENSIMMAISISTA TUNNEISTA OSUU PE-SU:ALLE

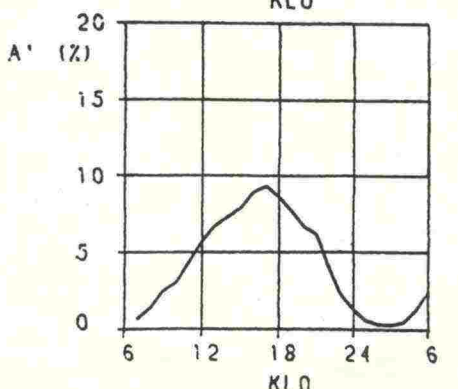
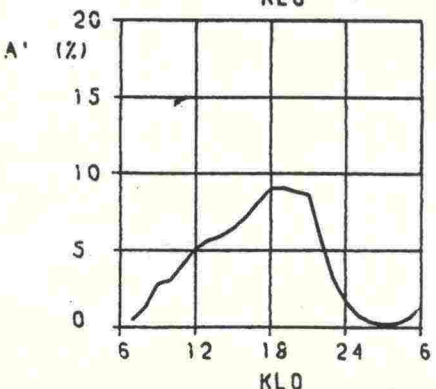
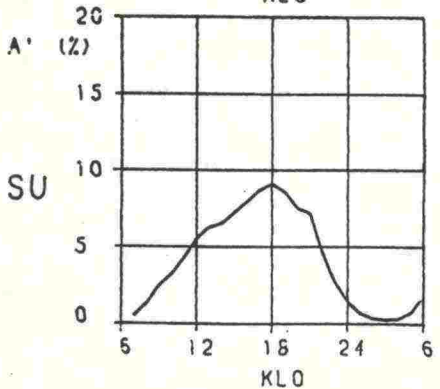
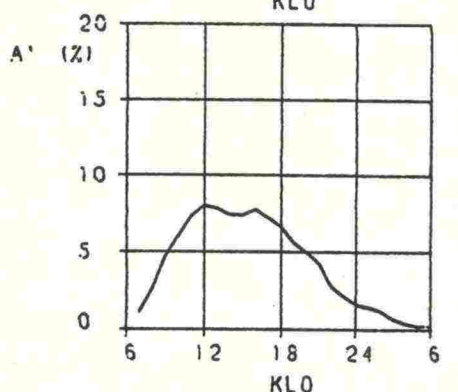
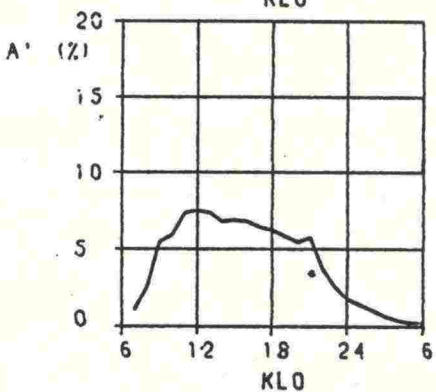
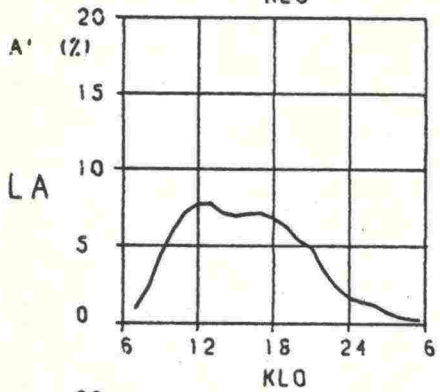
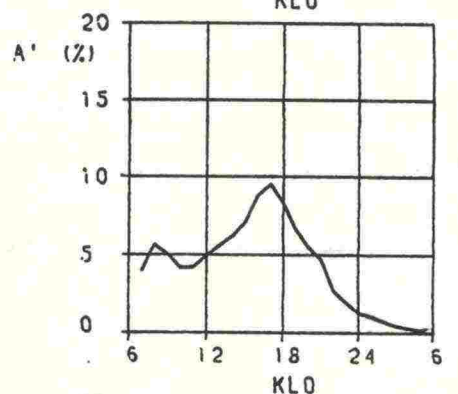
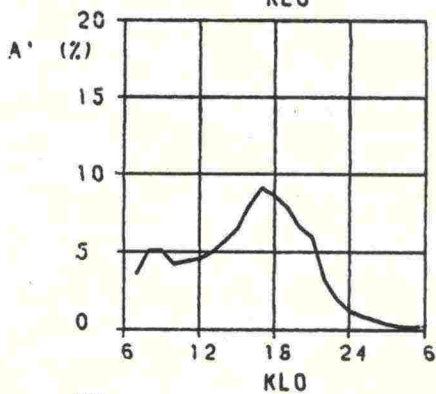
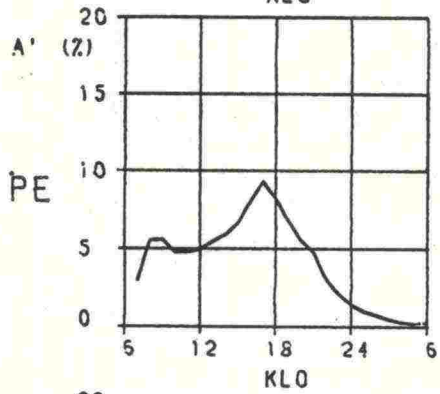
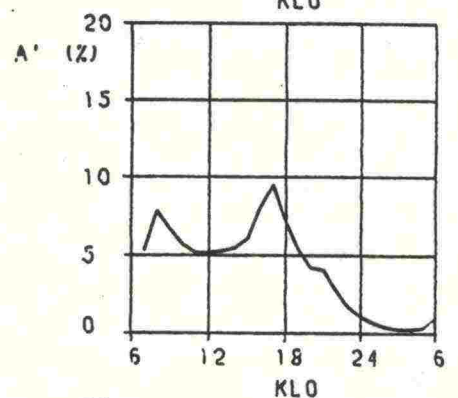
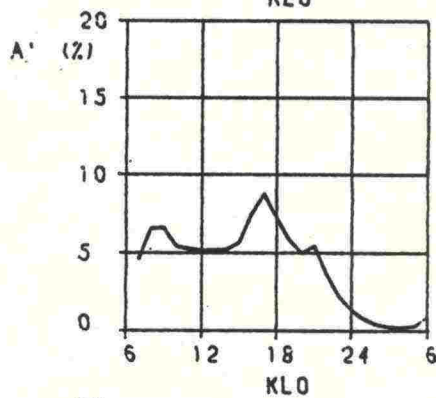
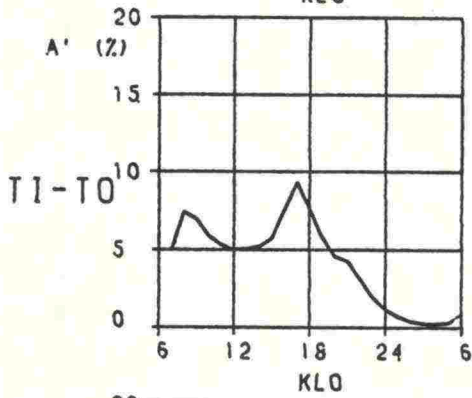
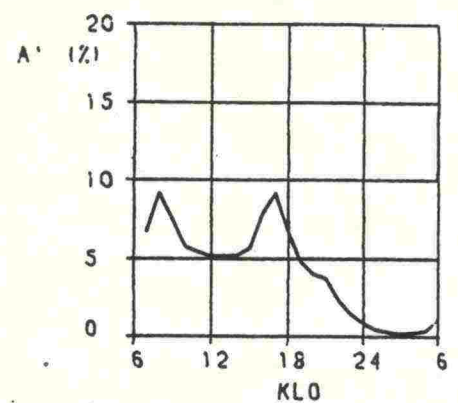
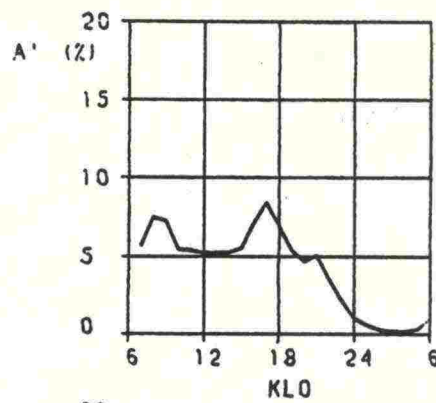
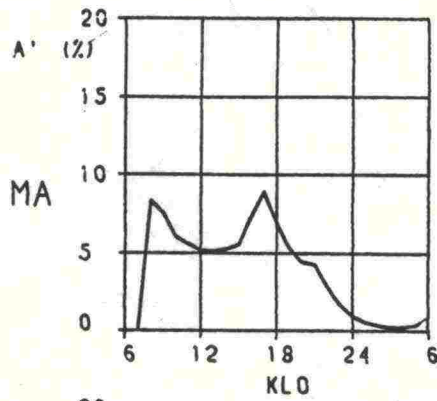


## TUNTIVAIHTELUT

HELMIKUU

HEINAKUU

LOKAKUU





224KAARINA

MT180 TIEOSA 1 ETAISYYS 3.2 KM

1987

KVL 7579 B' (SU/KESA) 0.95

KAVL 7723

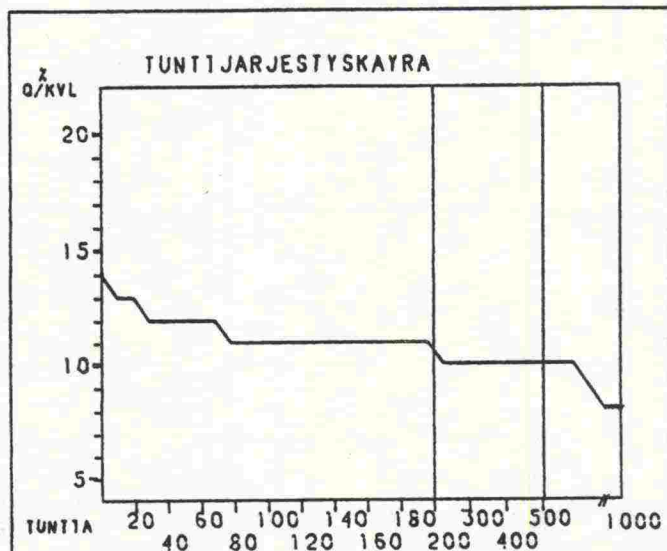
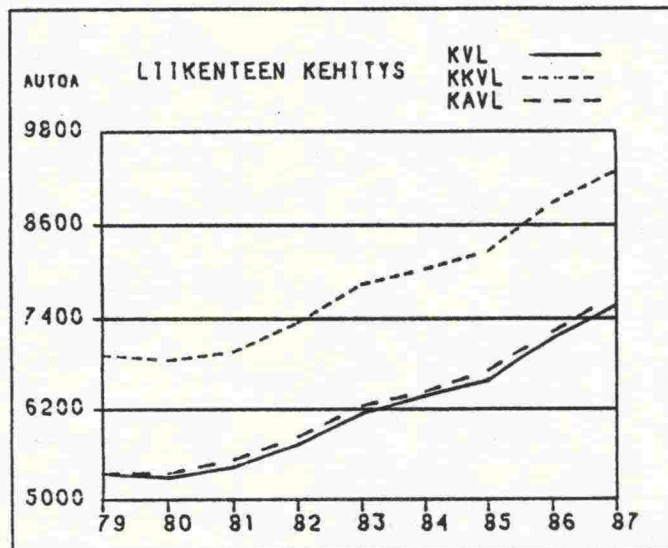
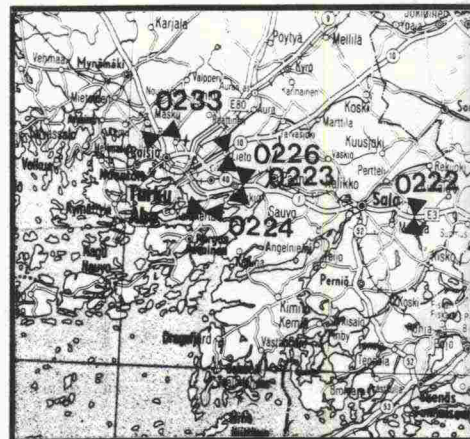
KKVL 9287 D' 1.22

ARKILIIKENTEN KOOSTUMUS

HA 82 % PA 9 %

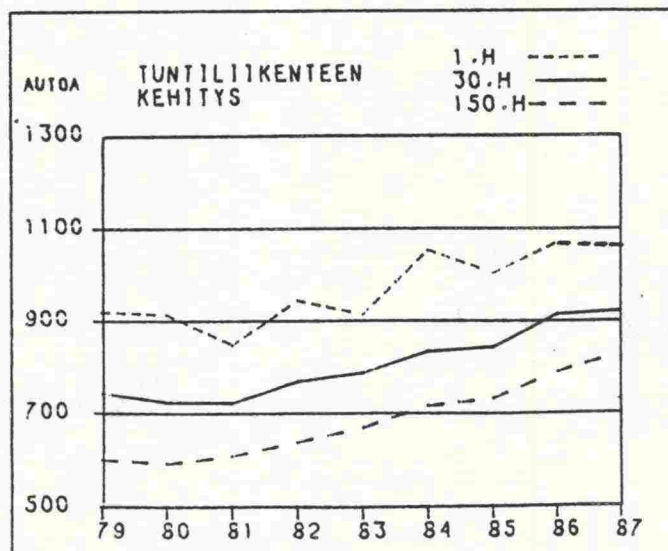
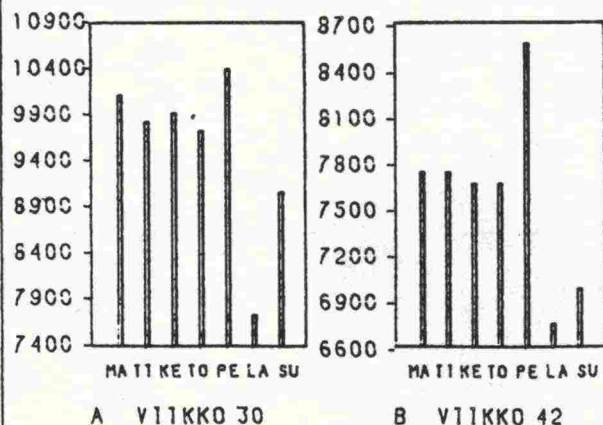
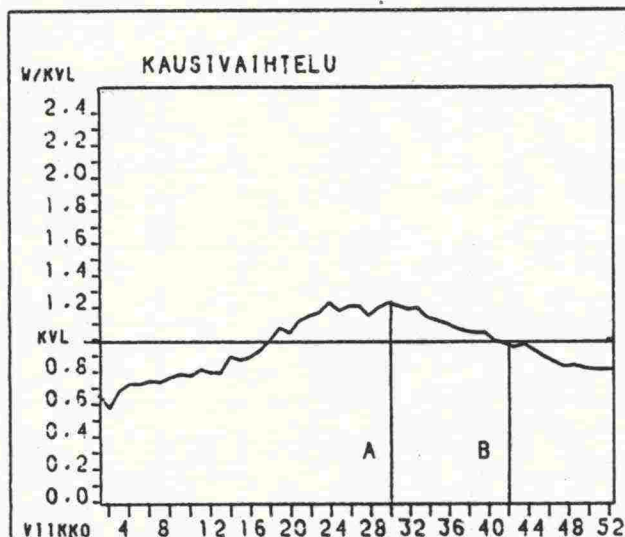
LA 1 % KAIP 4 %

KAPP - % KATP 4 %



H	Q	PE-SU (*)	KERTYMA	HTK
1	1063	100	0.1	0.95
30	923	87	1.1	0.88
100	852	70	3.3	0.94
150	830	60	4.8	0.88
300	755	51	9.1	0.91
1000	613	46	26.0	0.95
5000	267	39	89.2	0.91

(\*) MONTAKO % KO-ENSIMMAISISTA TUNNEISTA OSUU PE-SU-LLE



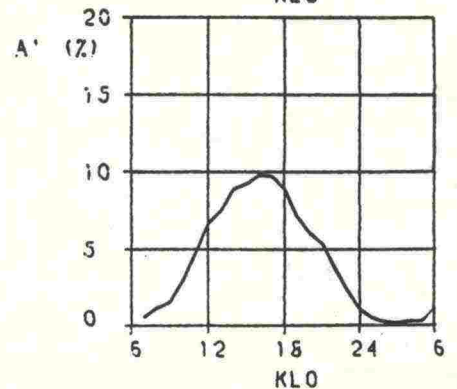
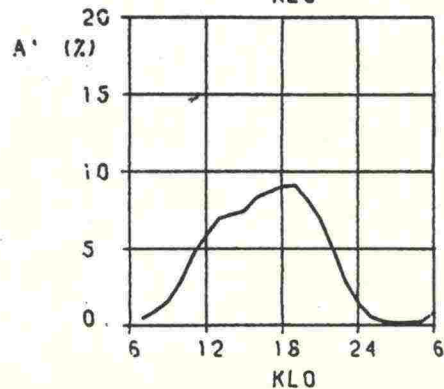
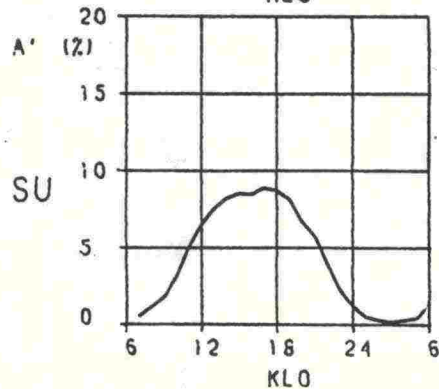
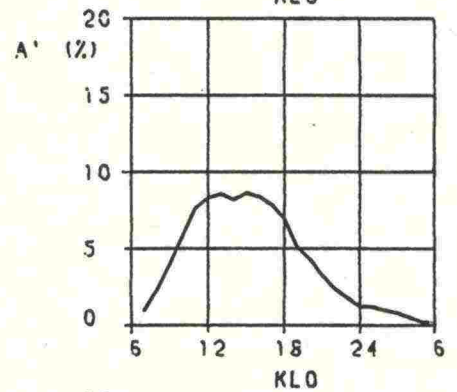
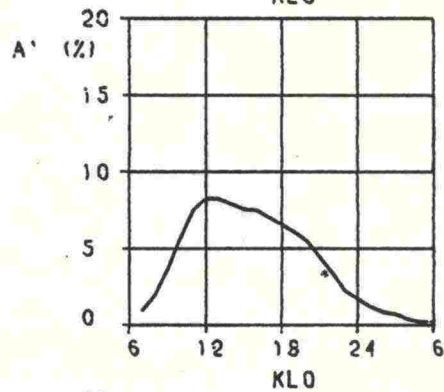
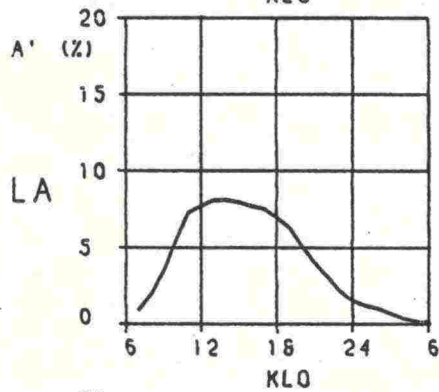
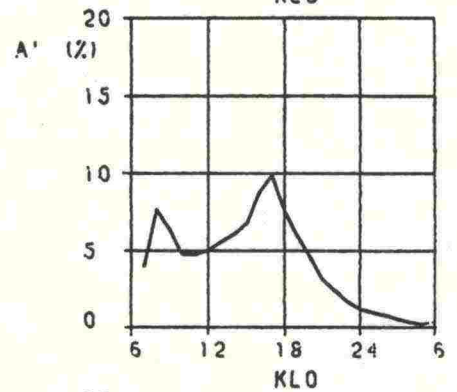
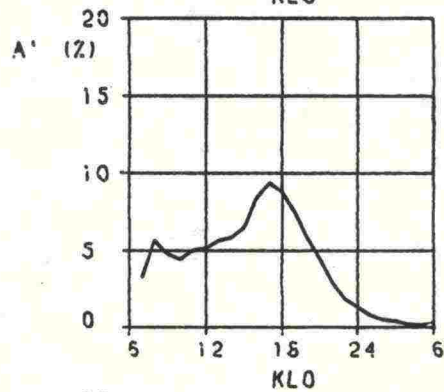
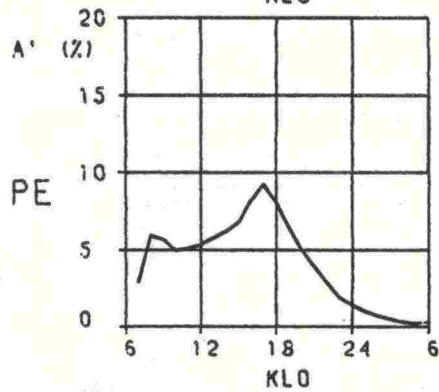
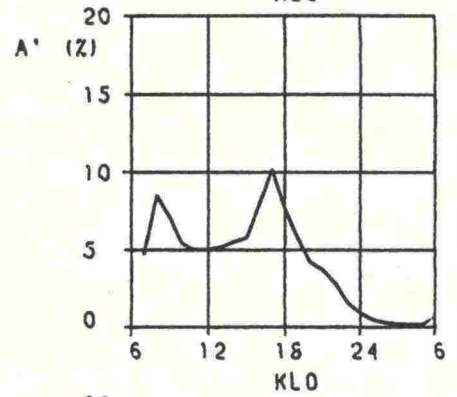
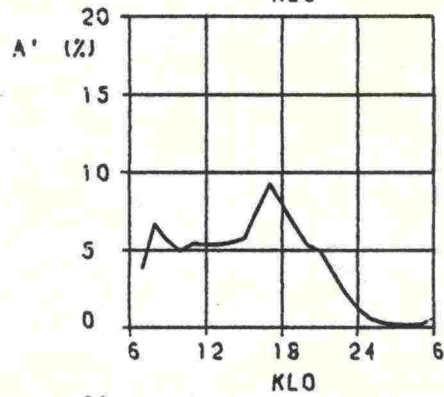
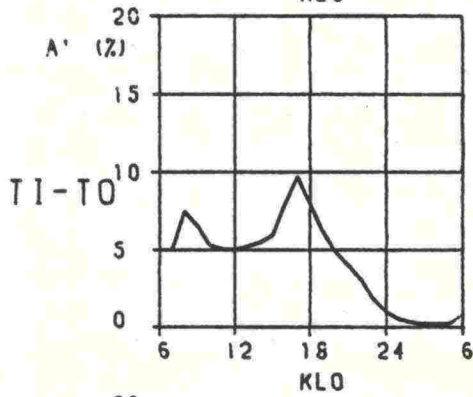
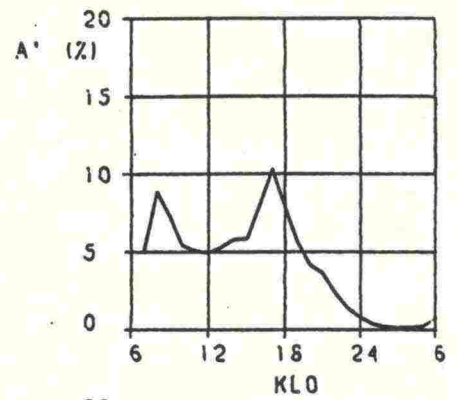
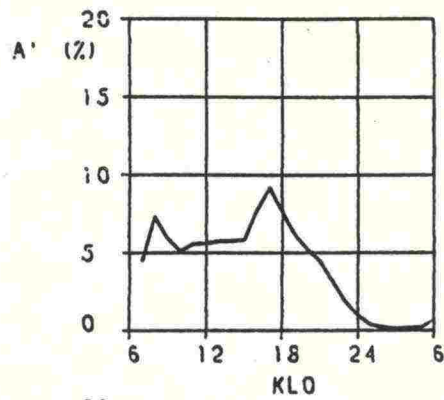
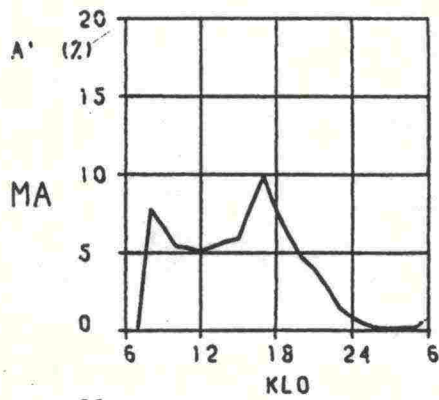


## TUNTIVAIHTELUT

HELMIKUU

HEINAKUU

LOKAKUU



226LIETO

VT10

TIEOSA 2

ETAISYYS 5.1 KM

1987

KVL 9498

B' (SU/KESA) 0.87

KAVL 9869

KKVL 10133

D' 1.06

## ARKILIIKENTEEN KOOSTUMUS

HA 82 %

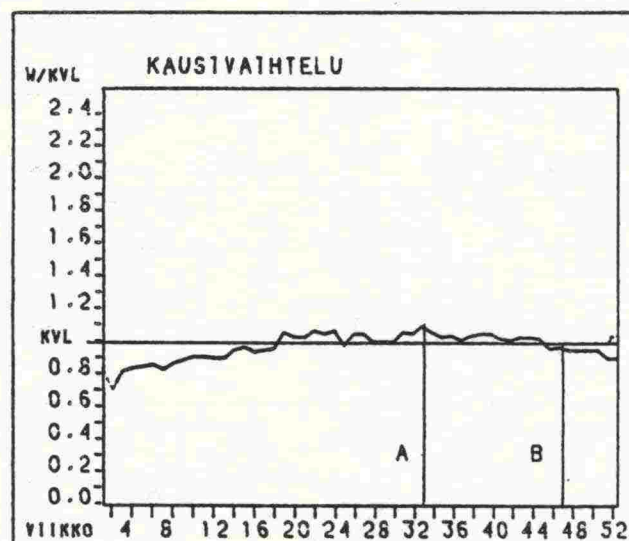
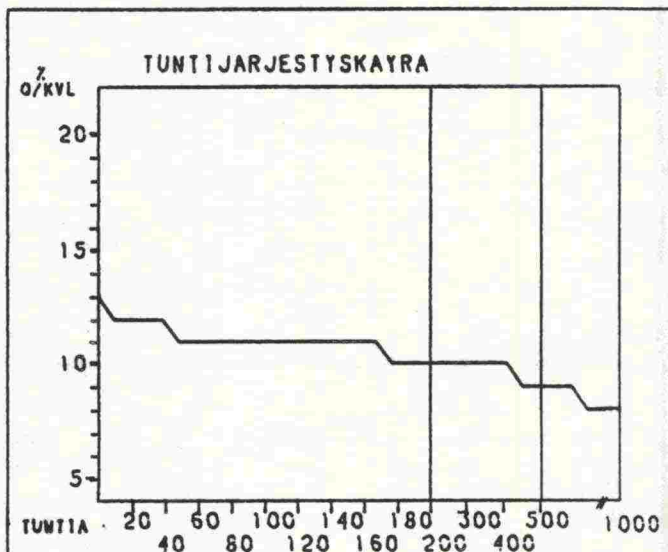
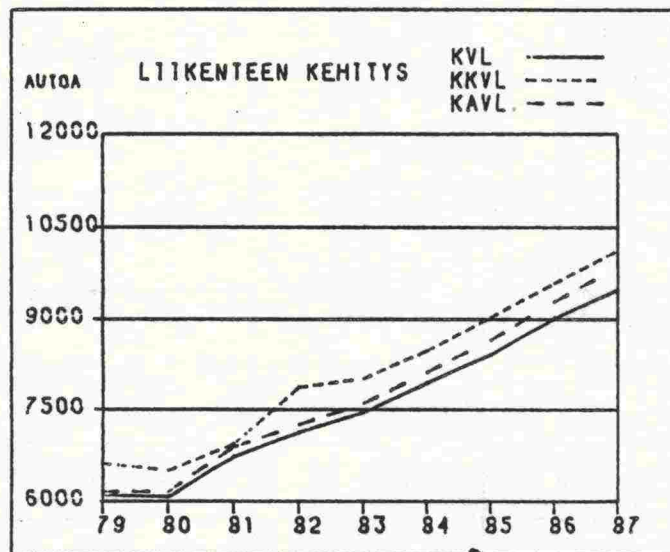
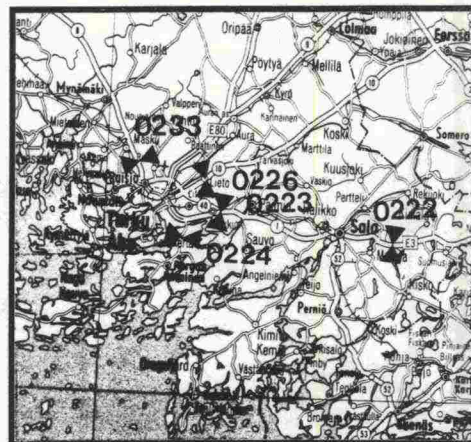
PA 8 %

LA 2 %

KAIP 4 %

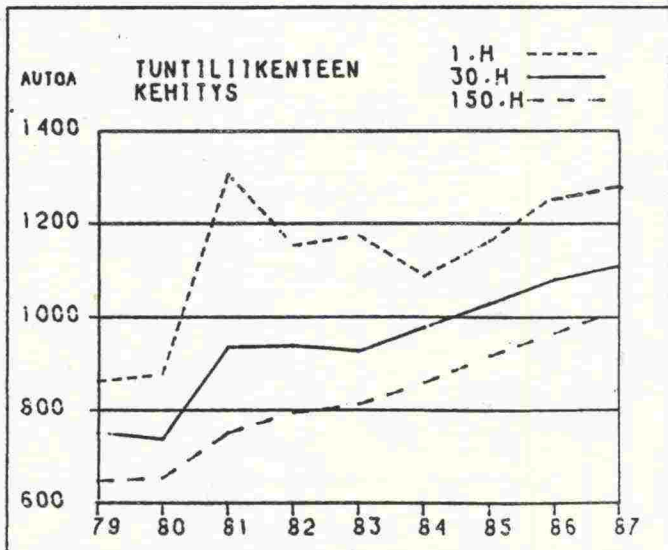
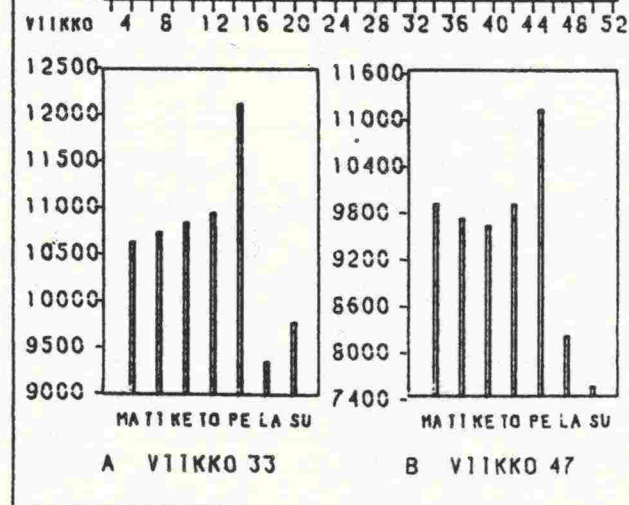
KAPP - %

KATP 4 %



H	Q	PE-SU (*)	KERTYMA	HTK
1	1280	100	0.1	0.93
30	1110	77	1.1	0.85
100	1042	47	3.2	0.95
150	1015	38	4.7	0.86
300	917	37	8.8	0.88
1000	730	32	25.0	0.83
5000	370	38	87.6	0.69

(\*) MONTAKO 2 KO-ENSIMMAISISTA TUNNEISTA OSUU PE-SU-LLE



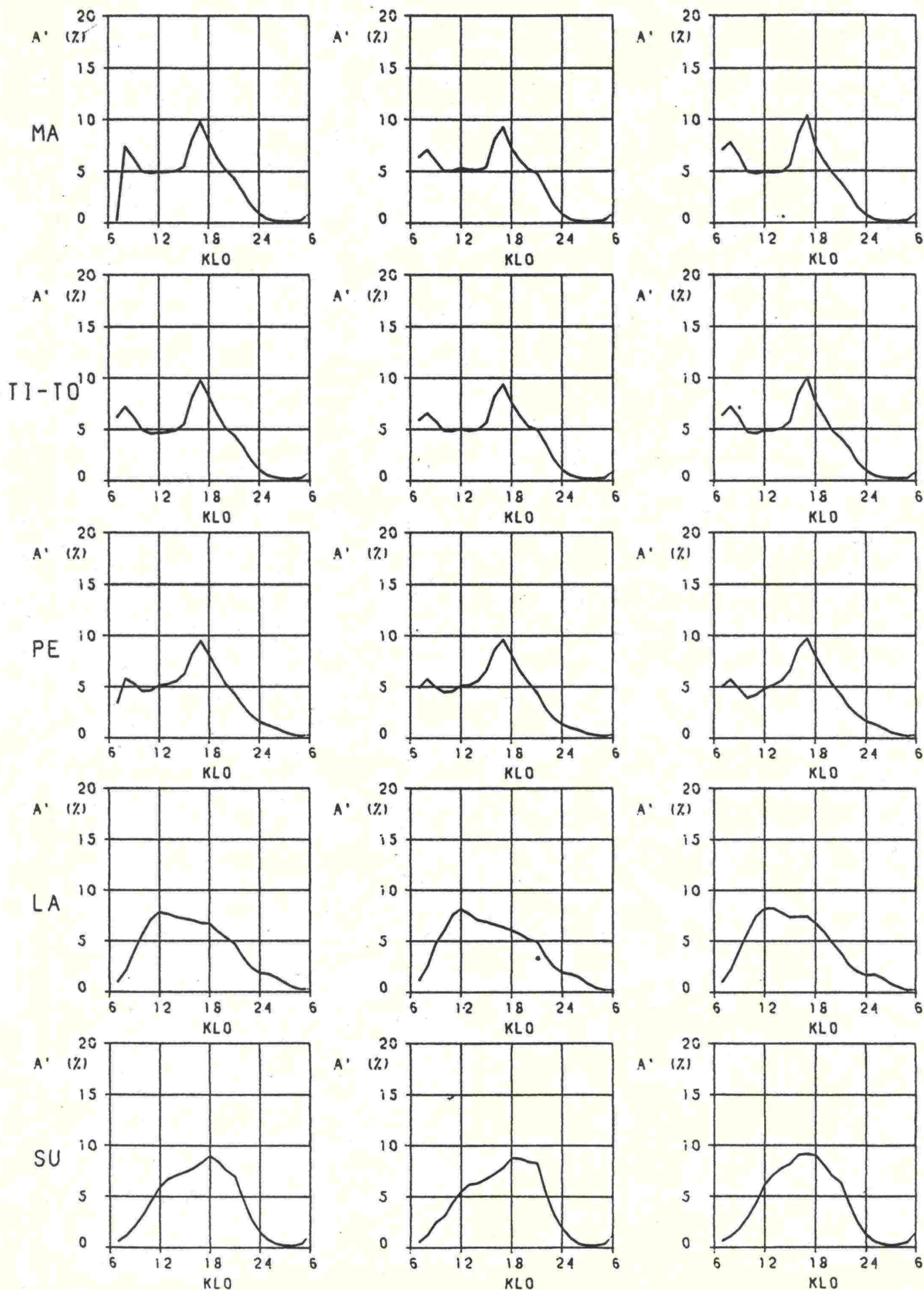


## TUNTIVAIHTELUT

HELMIKUU

HEINAKUU

LOKAKUU





324PORI/ULASOORI

1987

MT265 TIEOSA 1 ETAISYYS 4.8KM

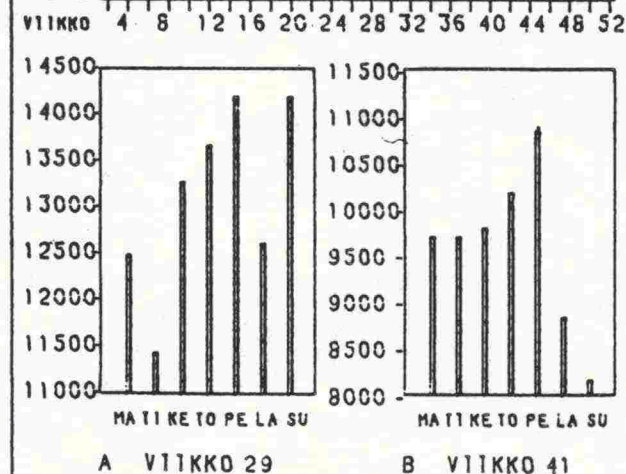
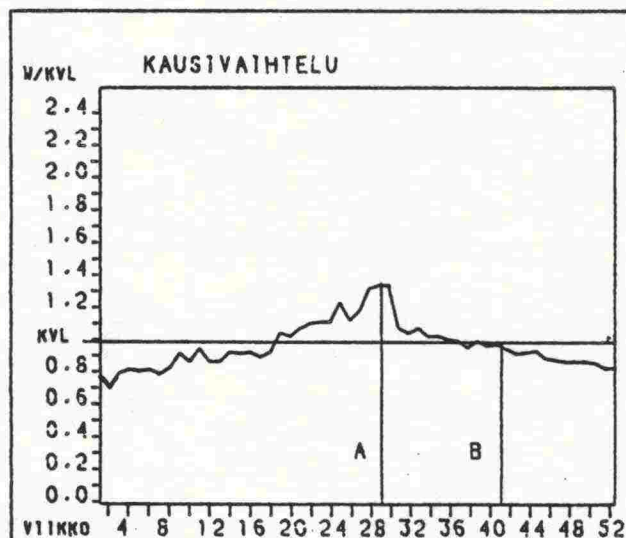
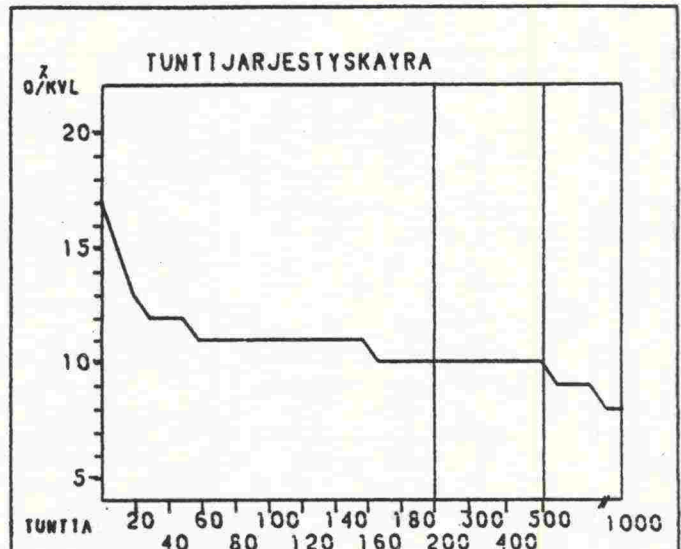
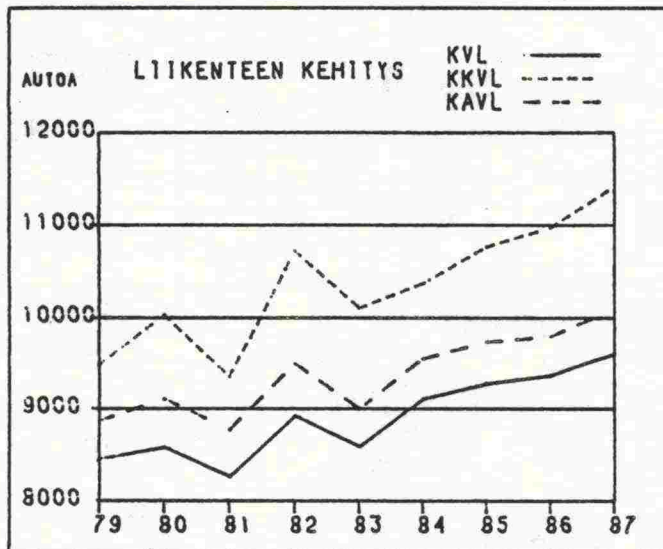
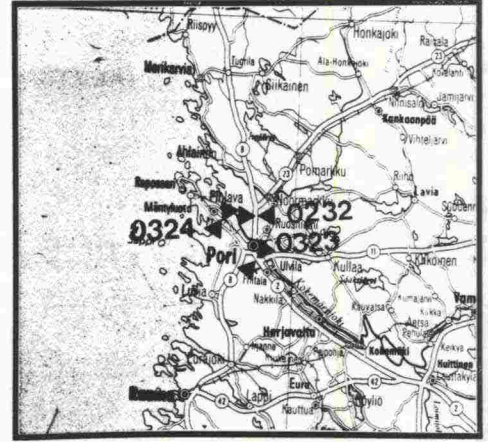
KVL 9595  
KAVL 10113  
KKVL 11416

B' (SU/KESA) 0.82

D' 1.18

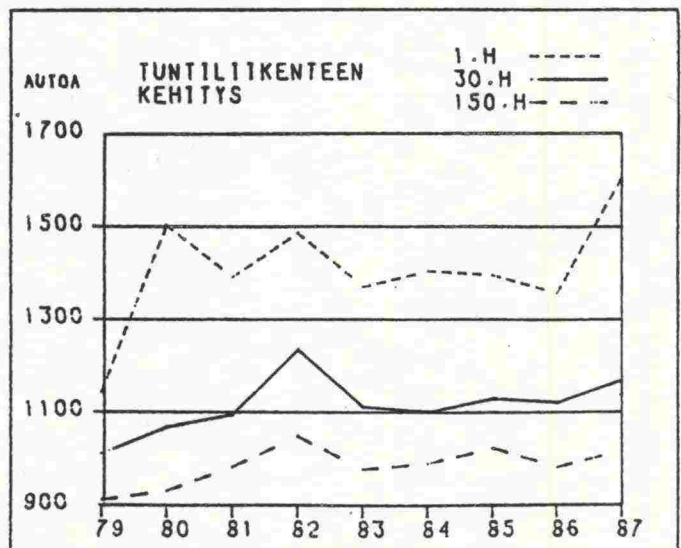
## ARKILIIKENTEN KOOSTUMUS

HA 80 % PA 8 %  
LA 2 % KAIP 4 %  
KAPP 1 % KATP 5 %



H	Q	PE-SU (*)	KERTYMA	HTK
1	1606	100	0.1	0.89
30	1170	37	1.1	0.84
100	1061	42	3.3	0.82
150	1018	33	4.6	0.86
300	933	33	0.9	-
1000	729	34	25.2	0.91
5000	353	38	86.3	0.91

(\*) MONTAKO X KO-ENSIMMAISISTA TUNNETISTA OSUUS PE-SU:LLE

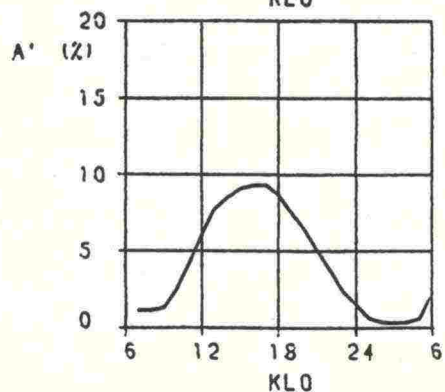
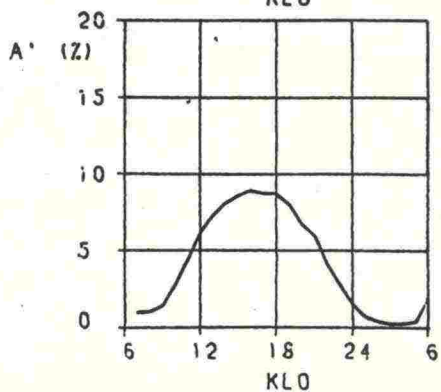
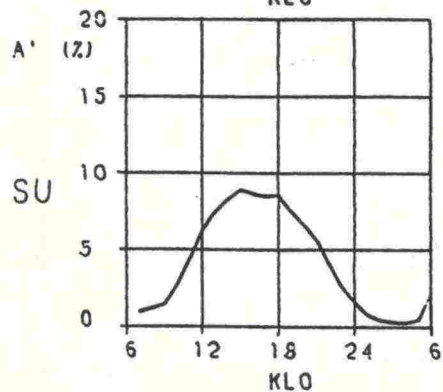
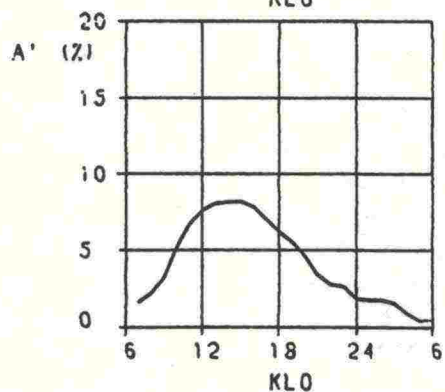
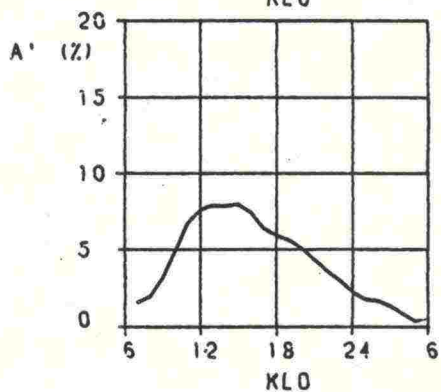
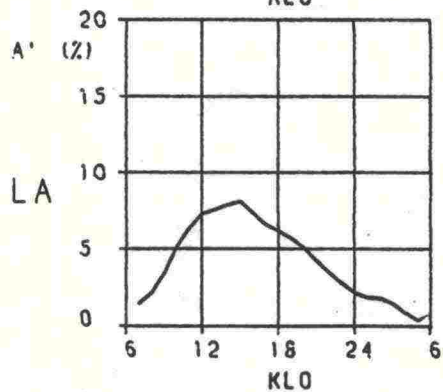
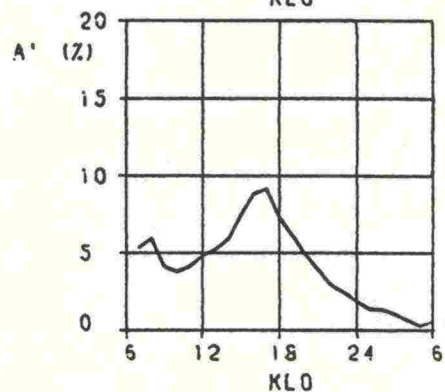
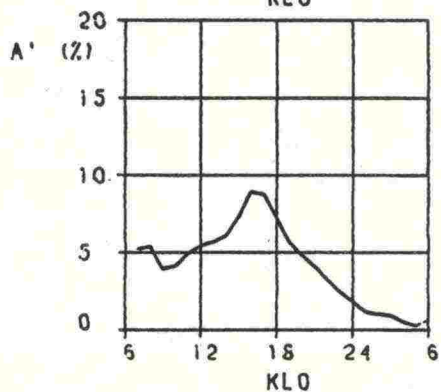
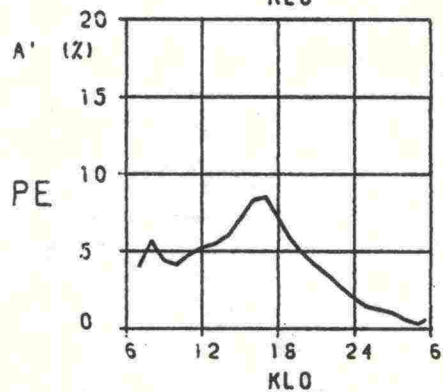
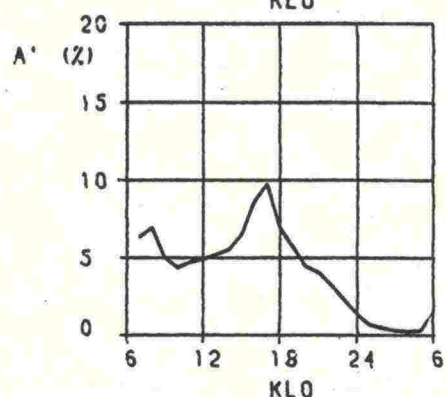
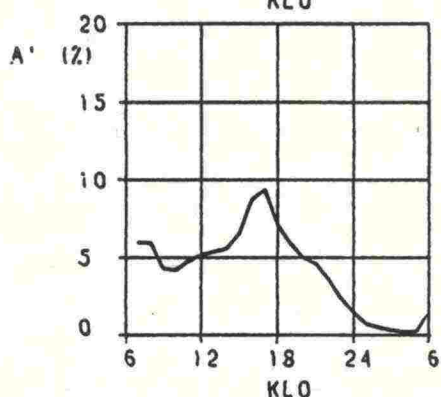
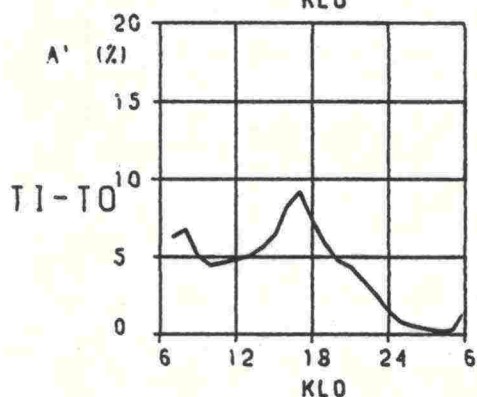
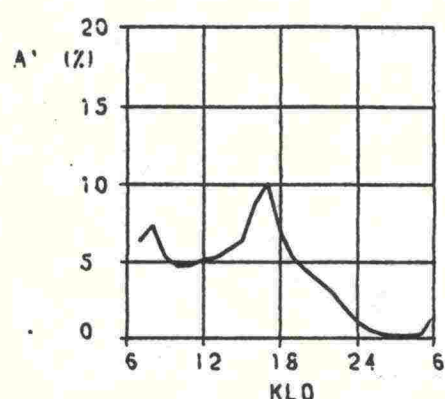
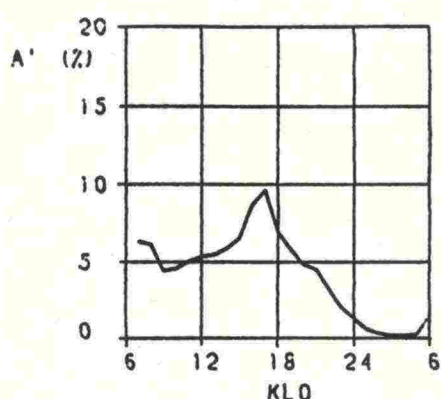
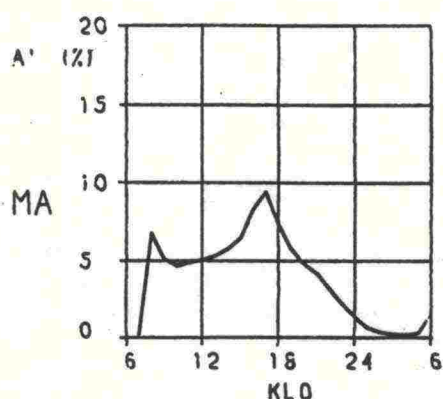


## TUNTIVAIHTELUT

HELMIKUU

HEINAKUU

LOKAKUU





428PAROLA

VT3

TIEOSA 123 ETAISYYS 1.2 KM

1987

KVL 9088

B' (SU/KESA) 1.10

KAVL 8754

KKVL 10685

D' 1.17

## ARKILIIKENTEN KOOSTUMUS

HA 78 %

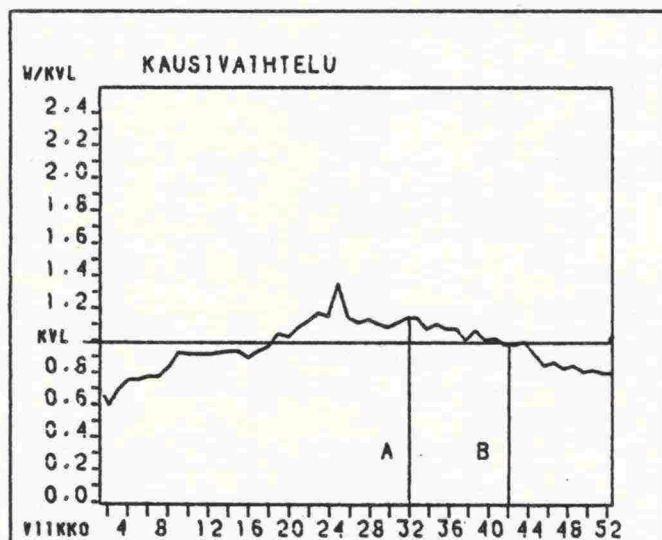
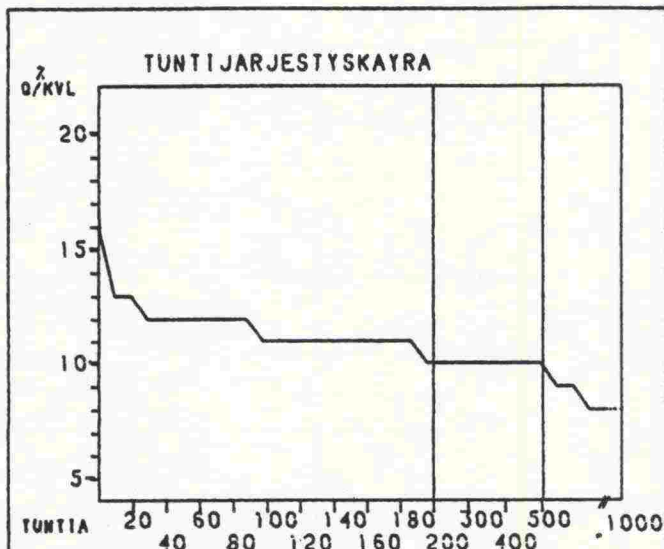
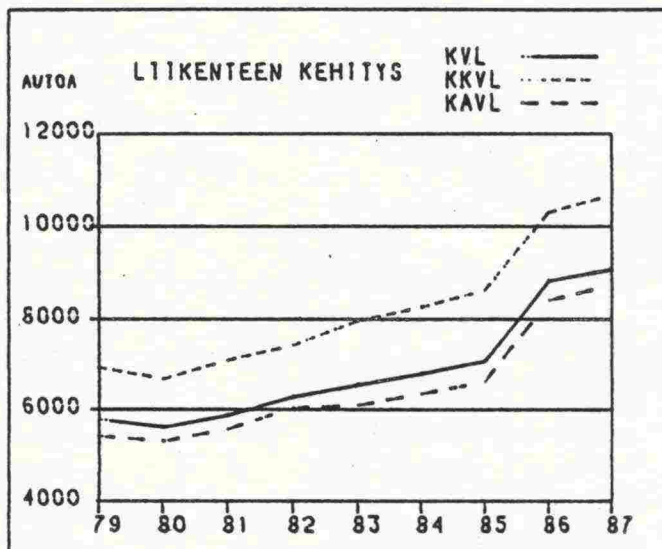
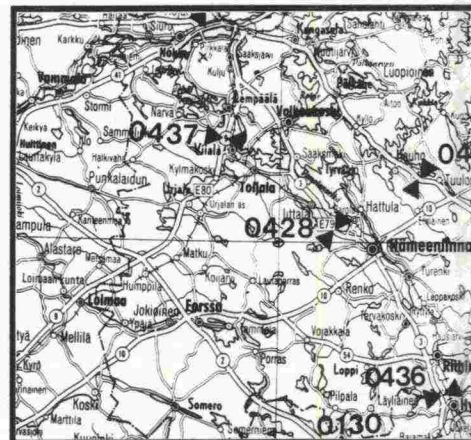
PA 7 %

LA 1 %

KAIP 5 %

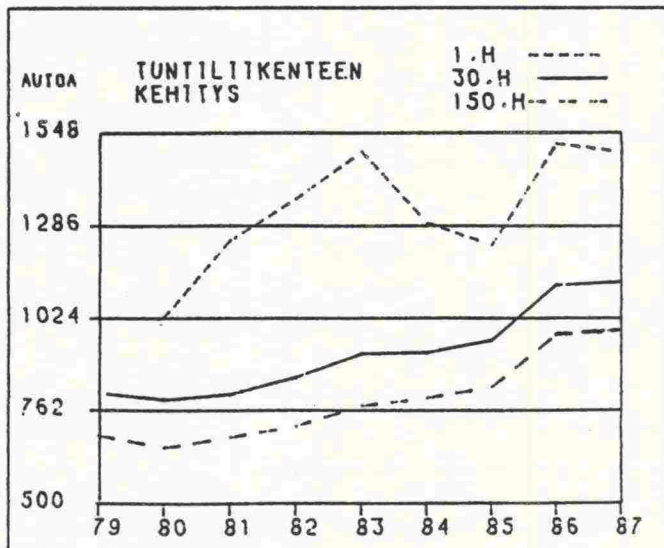
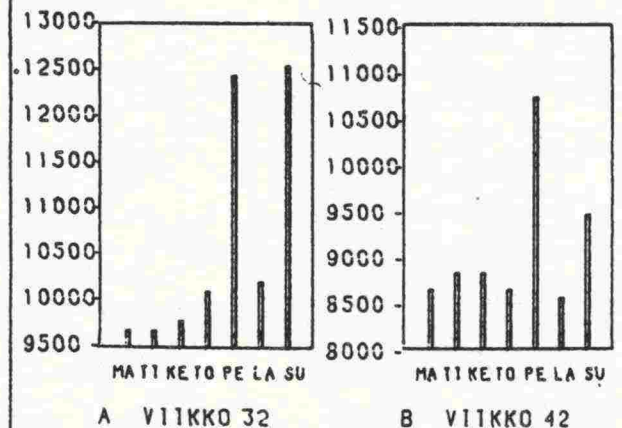
KAPP 2 %

KATP 7 %



H	Q	PE-SU (%)	KERTYMA	HTK
1	1496	100	0.1	0.78
30	1131	90	1.1	0.86
100	1041	89	3.4	0.78
150	991	91	4.9	0.96
300	693	92	9.1	-
1000	695	66	25.4	0.92
5000	319	41	86.1	0.70

(\*) MONTAKO % KO-ENSIMMAISTISTA TUNNEISTA OSUU PE-SU:ILLE



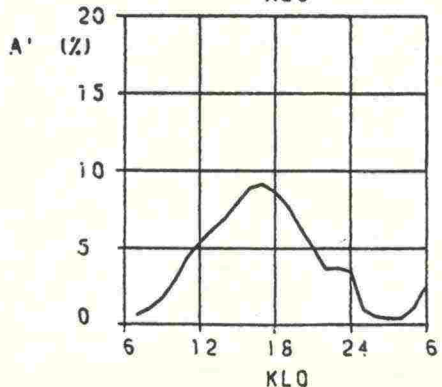
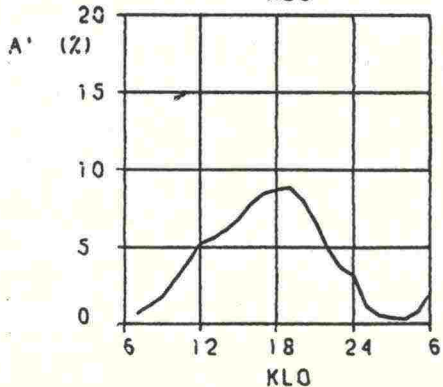
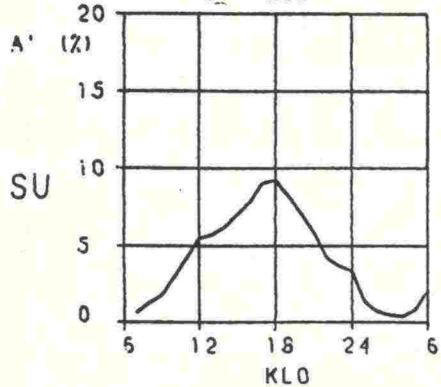
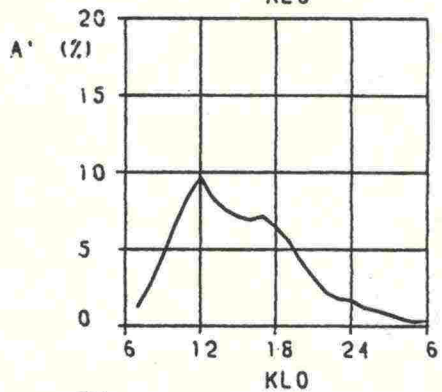
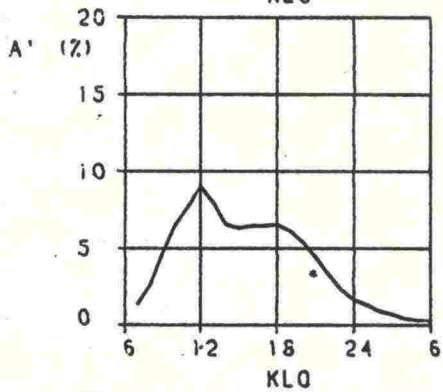
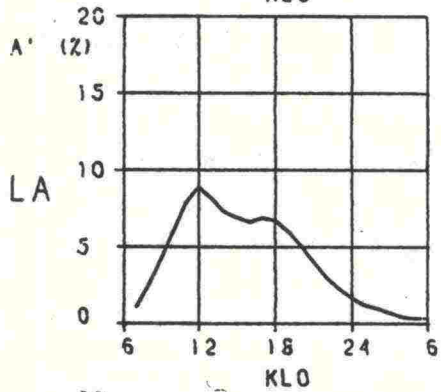
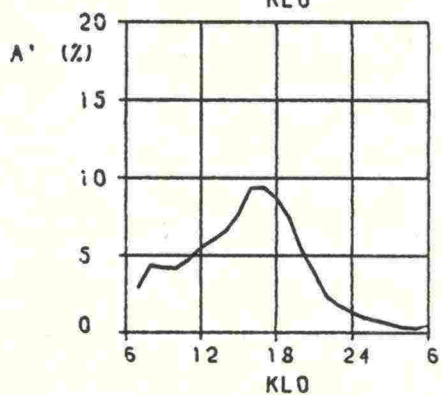
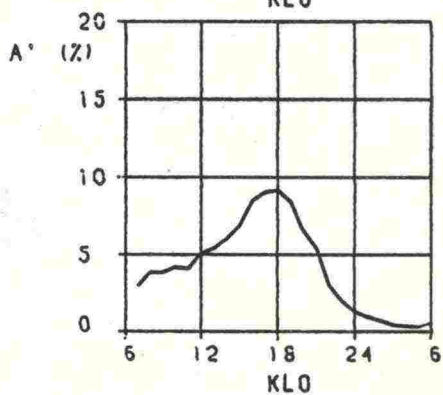
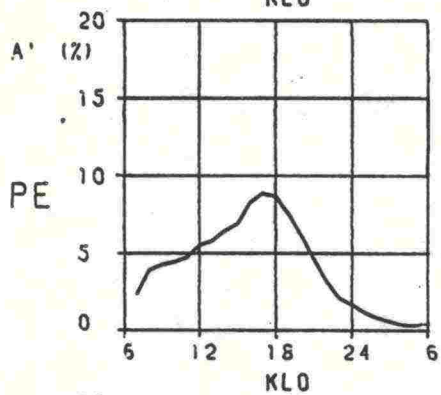
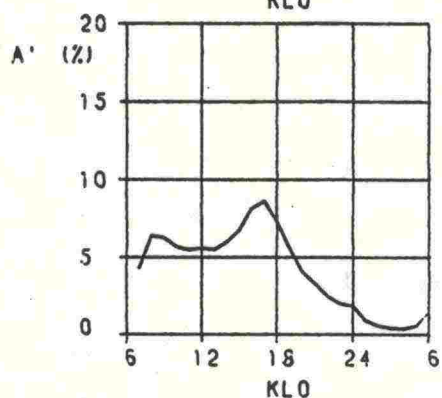
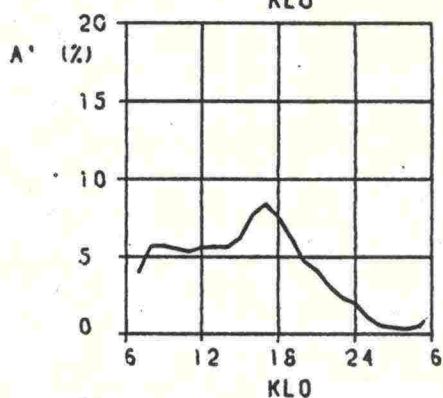
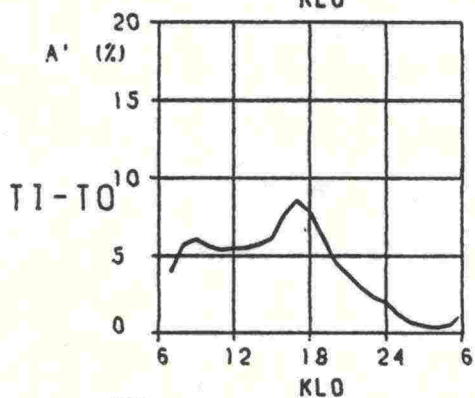
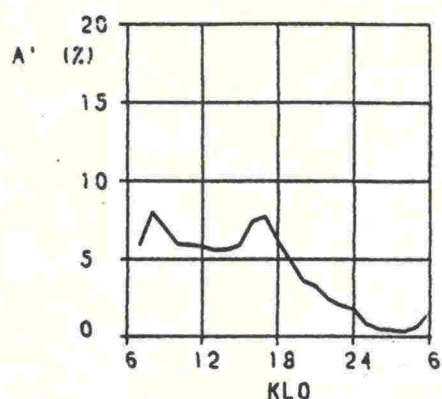
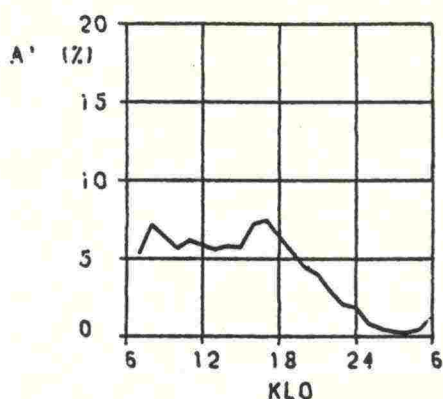
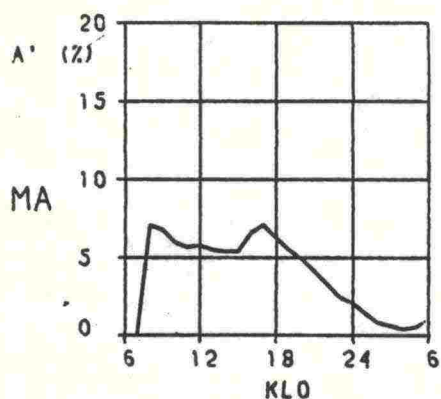


## TUNTIVAIHTELUT

HELMIKUU

HEINAKUU

LOKAKUU



431 HAUHO

1987

VT12 TIEOSA 13 ETAISYYS 1.4 KM

KVL 2469

B' (SU/KESA) 1.31

KAVL 2179

KKVL 3317

D' 1.34

## ARKILIIKENTEEN KOOSTUMUS

HA 77 %

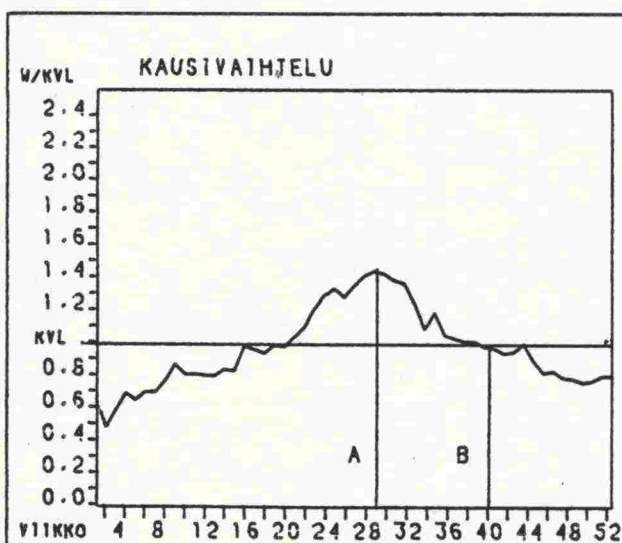
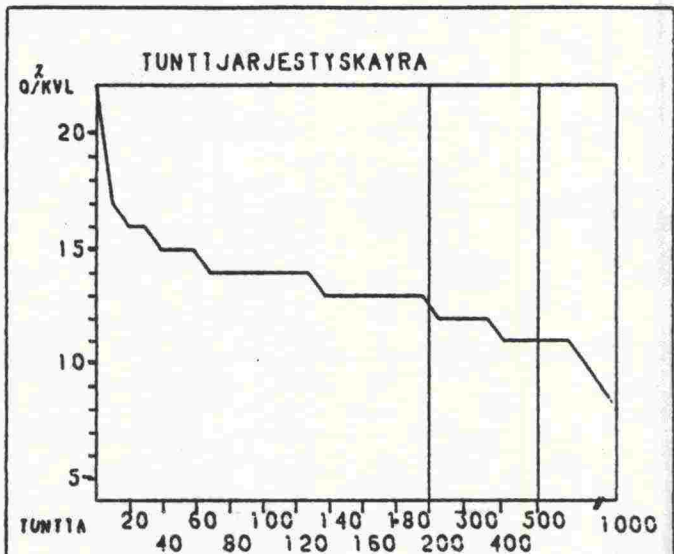
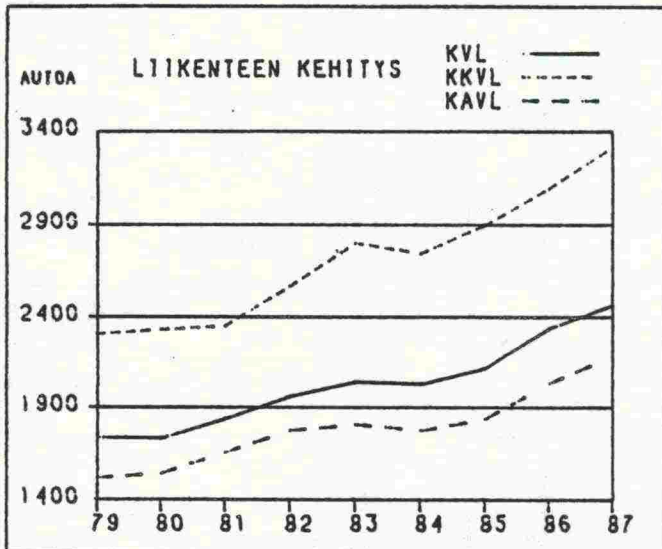
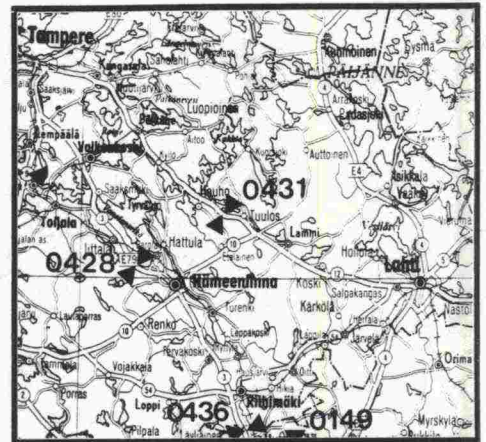
PA 7 %

LA 2 %

KAIP 5 %

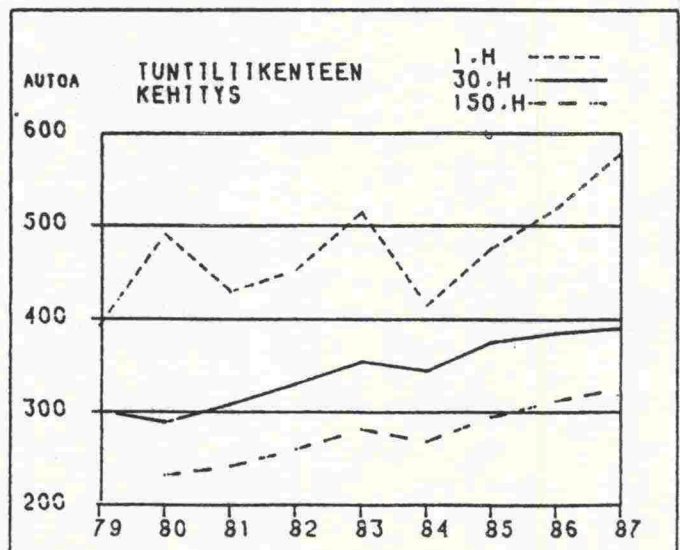
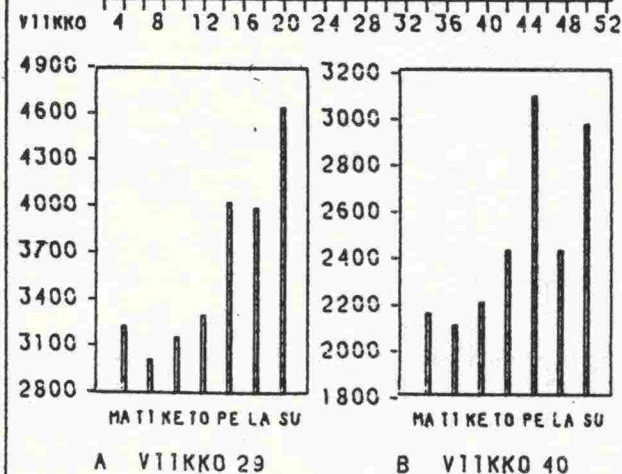
KAPP 1 %

KATP 8 %



H	Q	PE-SU (•)	KERTYMA	HTK
1	579	100	0.1	0.86
30	391	90	1.4	0.95
100	345	94	4.2	0.87
150	326	96	6.1	0.92
300	283	96	11.2	0.85
1000	201	77	29.3	0.88
5000	74	44	86.9	0.64

(•) MONTAKO 2 KO. ENSIMMAISISTA TUNNEISTA OSUU PE-SU-LLE.



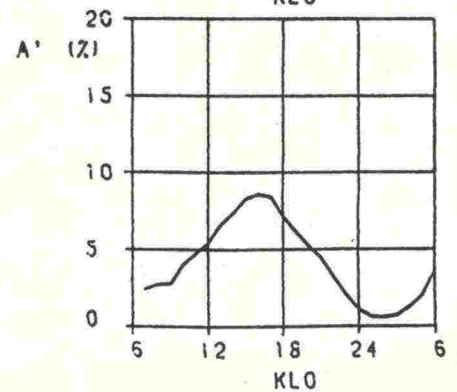
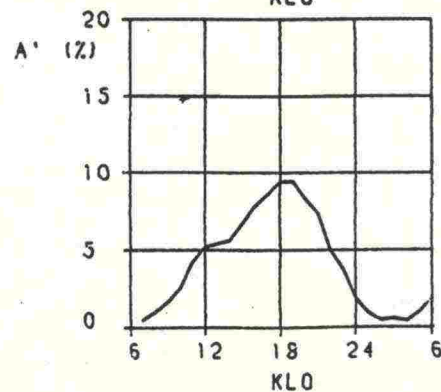
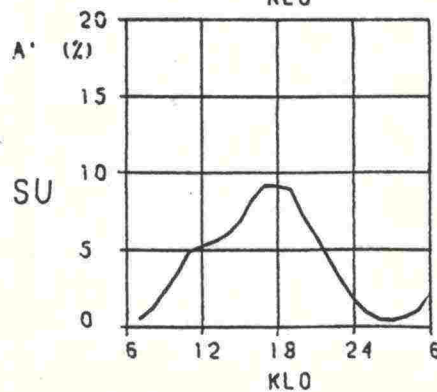
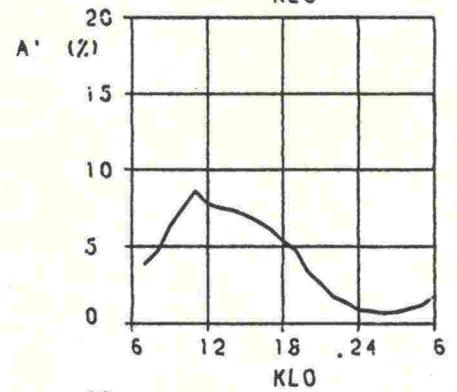
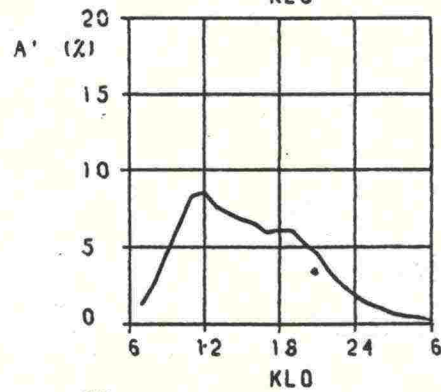
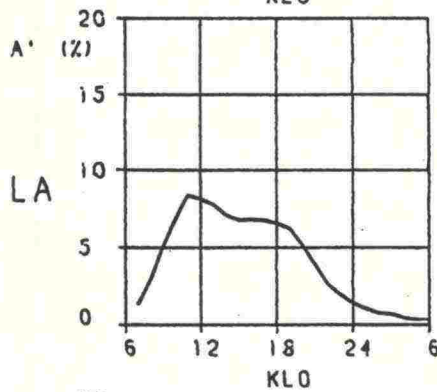
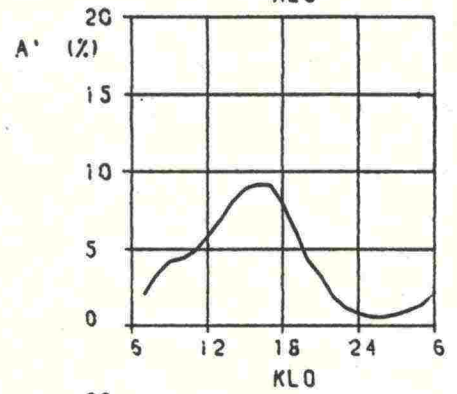
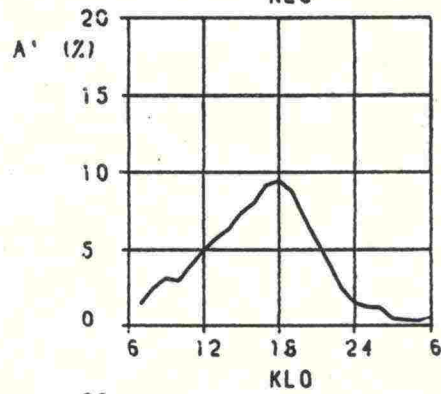
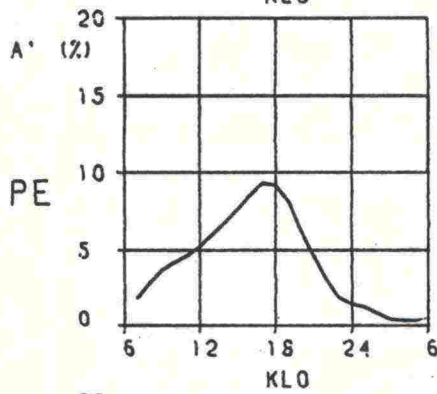
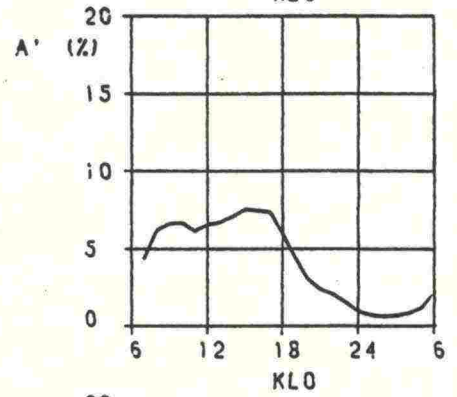
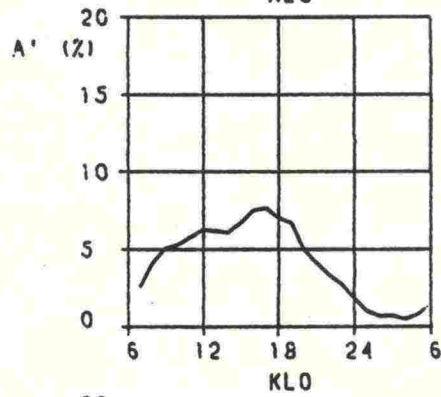
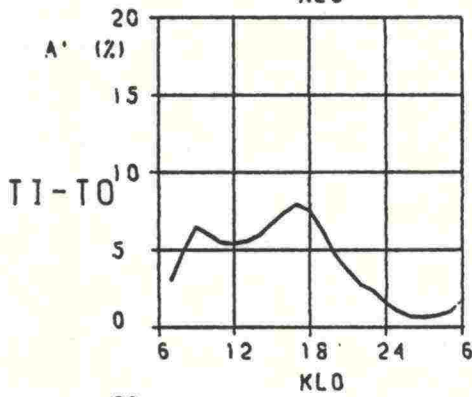
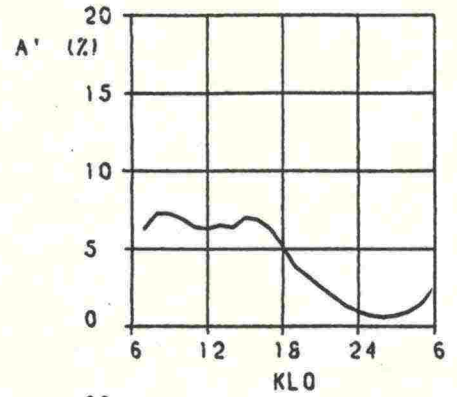
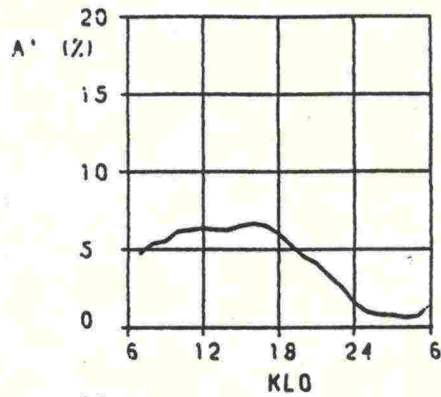
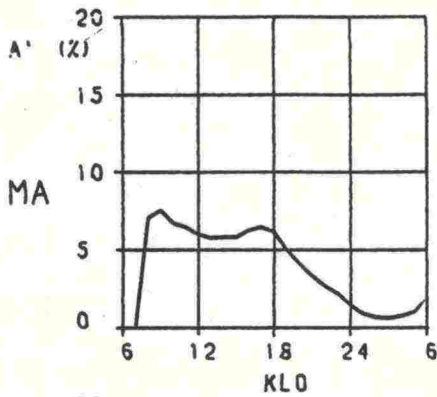


## TUNTIVAIHTELUT

HELMIKUU

HEINAKUU

LOKAKUU



4320RIVESI

1987

VT9

TIEOSA 217 ETAISYYS 4.0 KM

KVL 3308

B' (SU/KESA) 1.23

KAVL 2922

KKVL 4634

D' 1.40

## ARKILIIKENTEN KOOSTUMUS

HA 79%

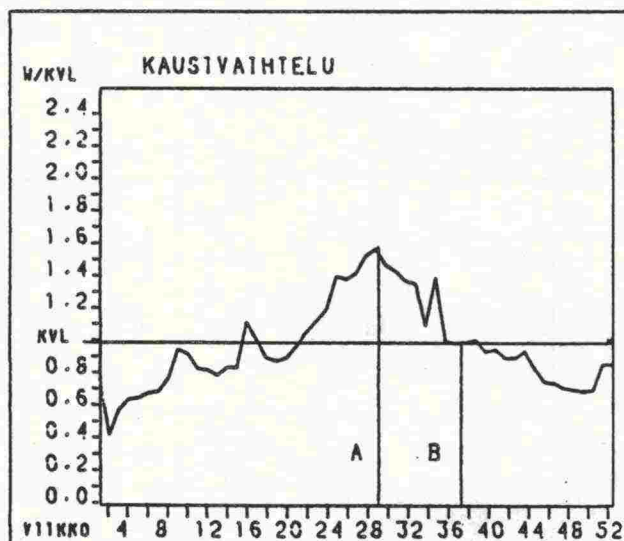
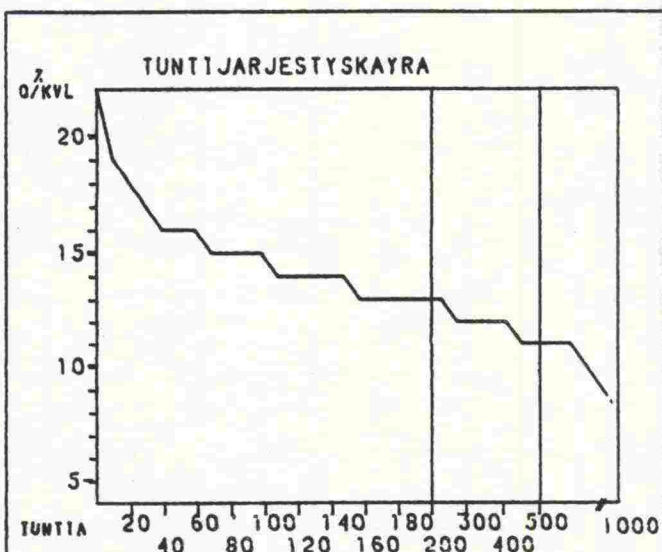
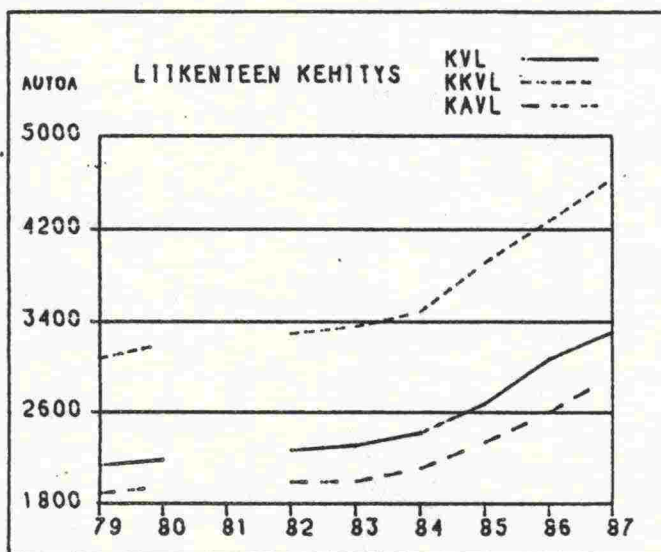
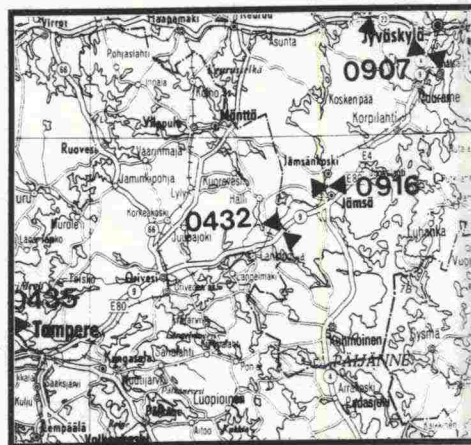
PA 7%

LA 1%

KAIP 3%

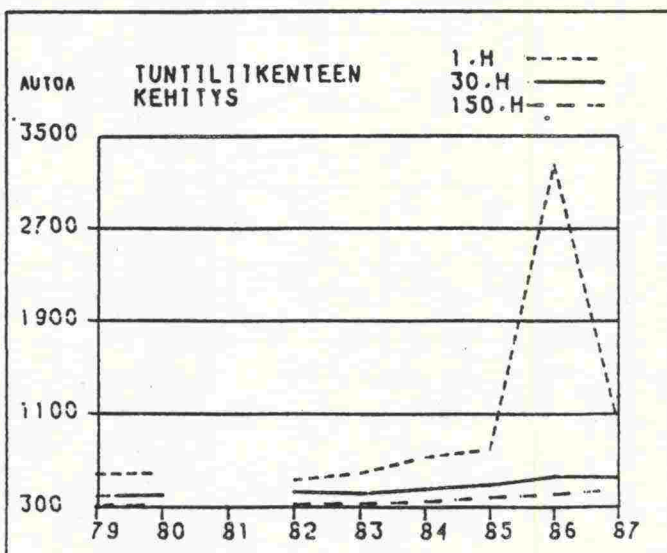
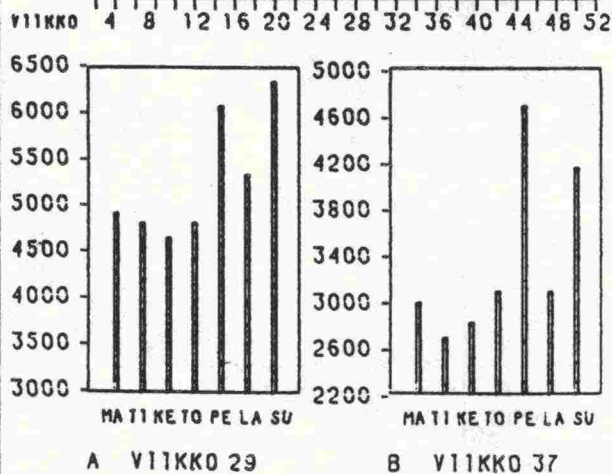
KAPP 1%

KATP 9%



H	Q	PE-SU (*)	KERTYMA	HTK
1	1004	100	0.1	0.89
30	556	77	1.6	0.95
100	482	86	4.5	0.93
150	452	89	6.5	0.91
300	386	90	11.6	0.84
1000	270	73	30.0	0.85
5000	100	43	85.5	0.83

(\*) MONTAKO % KO-ENSIMMAISISTA TUNNEISTA OSUU PE-SU:LE



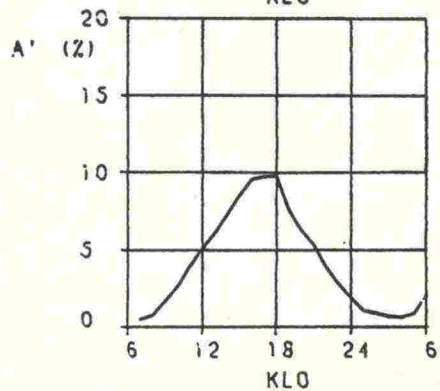
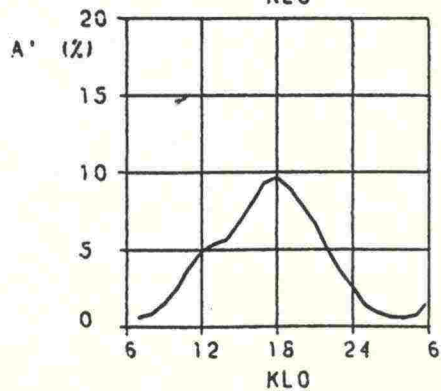
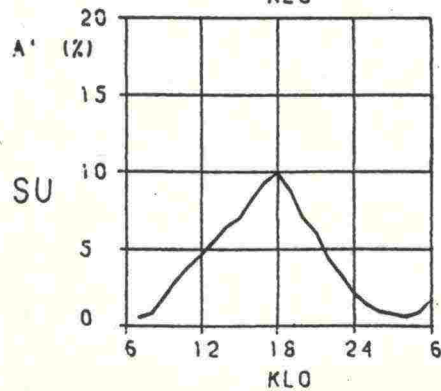
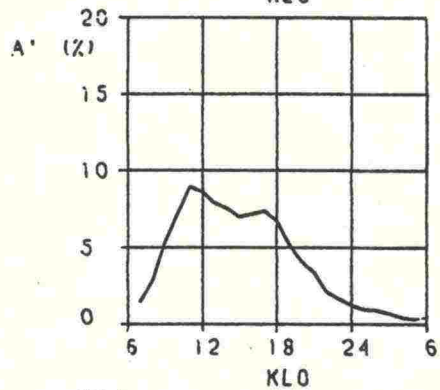
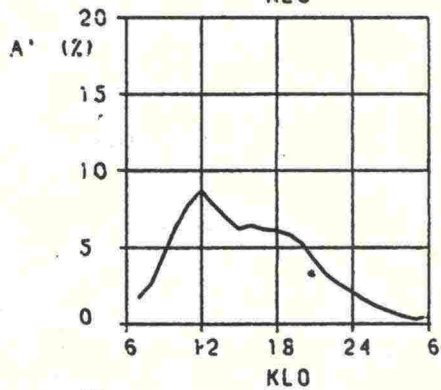
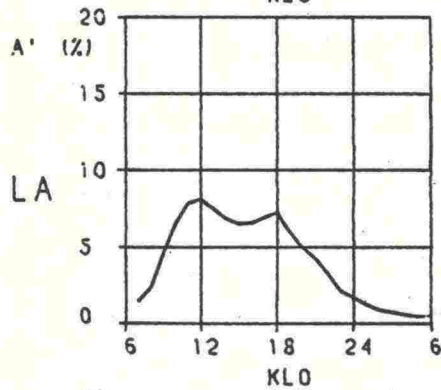
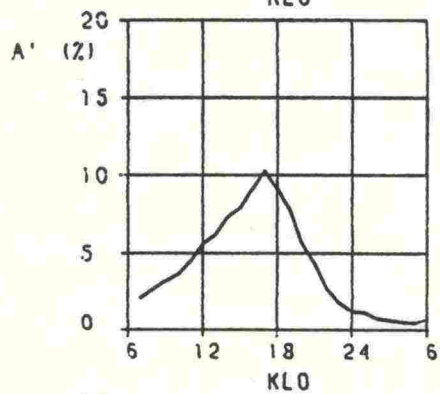
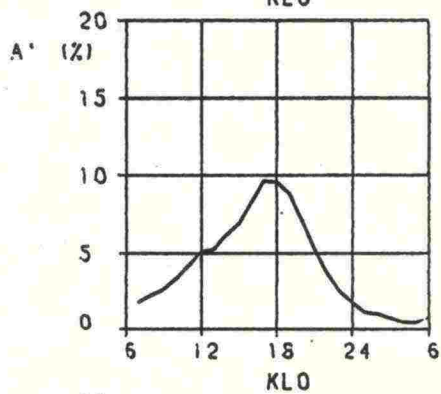
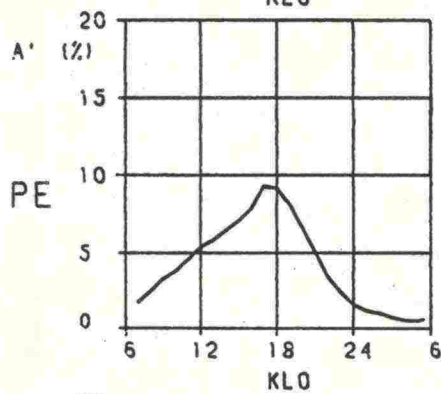
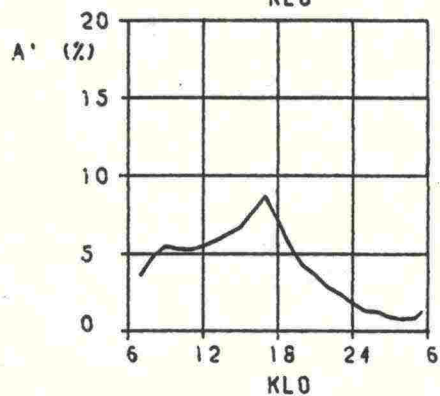
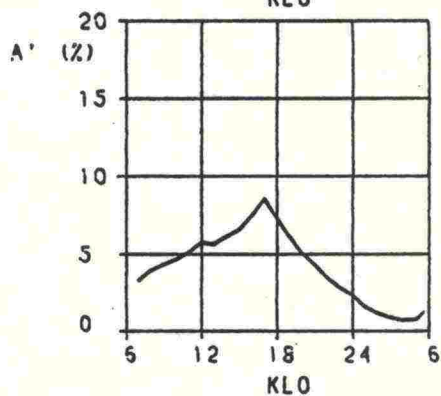
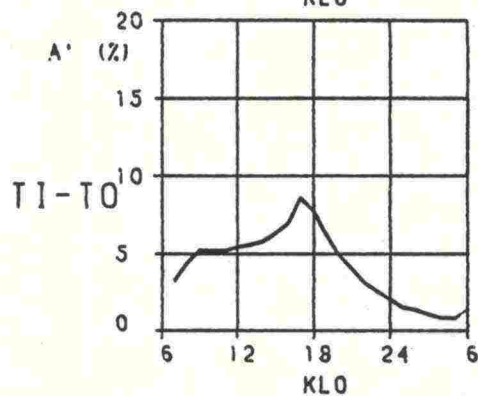
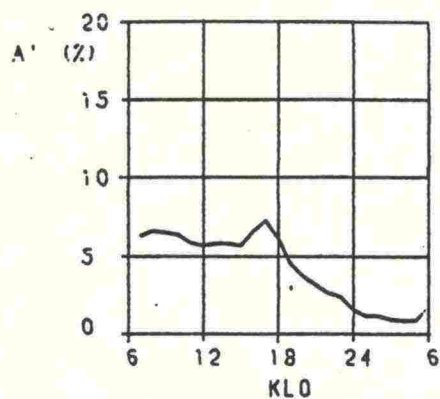
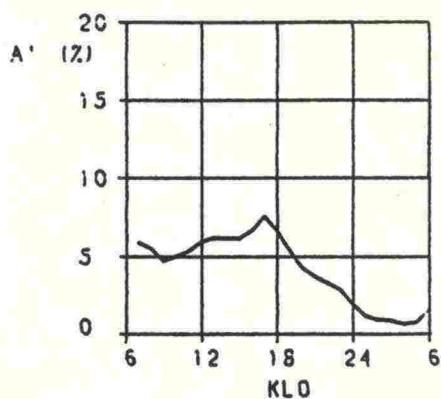
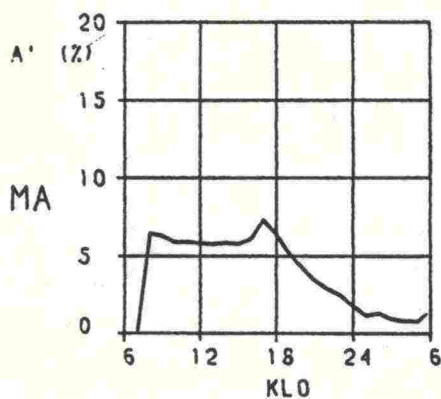


## TUNTIVAIHTELUT

HELMIKUU

HEINAKUU

LOKAKUU



436RIIHIMÄKI

1987

VT3

TIEOSA 114 ETAISYYS 5.0KM

KVL 14096

B' (SU/KESA) 1.20

KAVL 13157

KKVL 16532

D' 1.17

## ARKILIIKENTEEEN KOOSTUMUS

HA 71 %

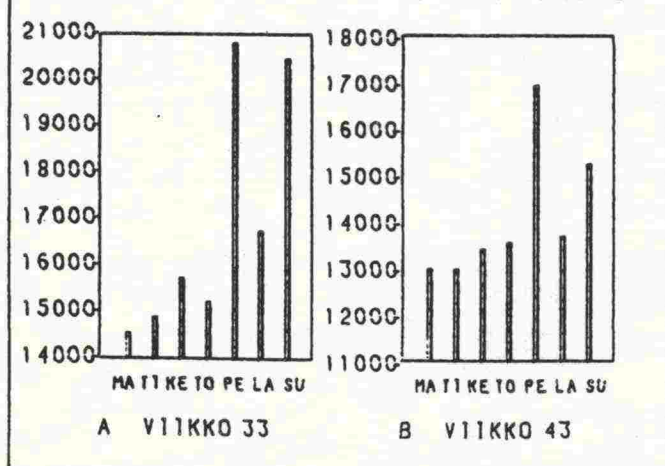
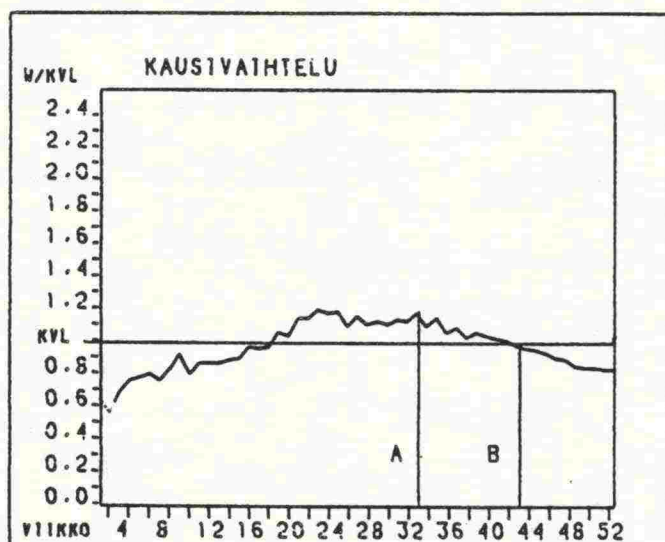
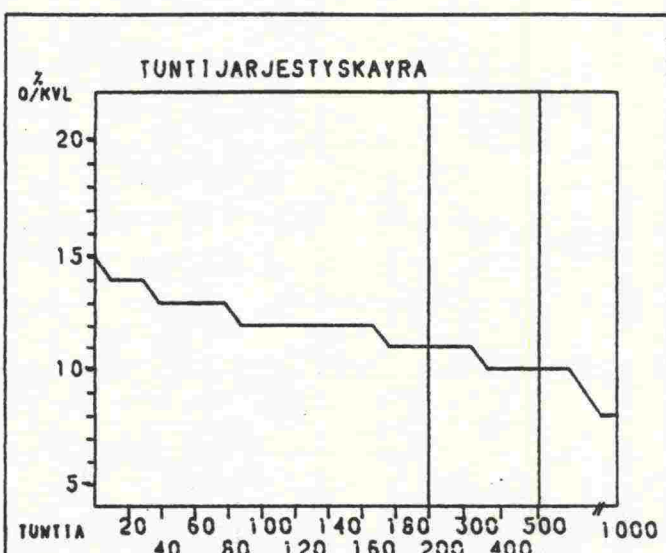
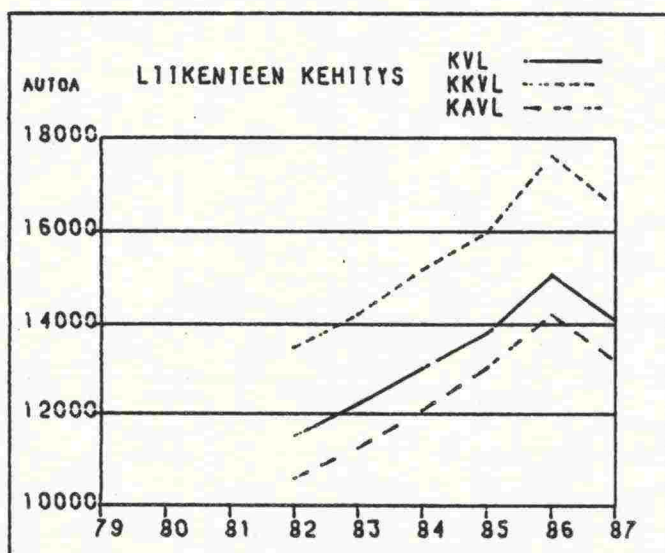
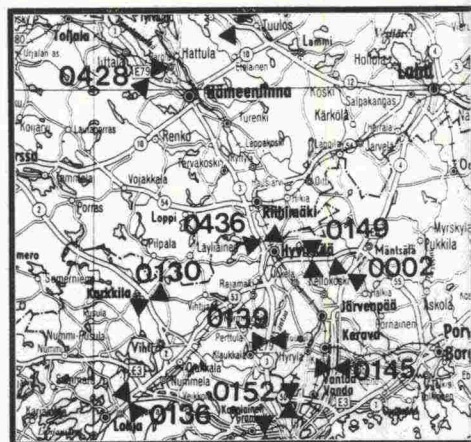
PA 7 %

LA 2 %

KAIP 8 %

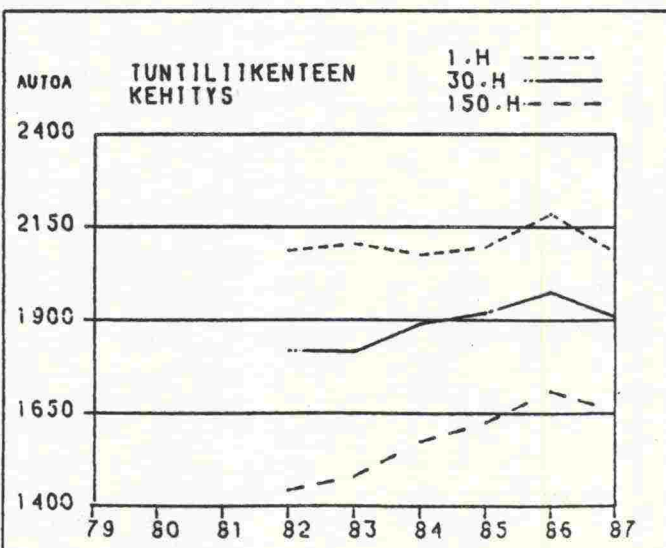
KAPP 3 %

KATP 9 %



H	Q	PE-SU (KERTYMA)	HTK
1	2053	100	0.1
30	1910	100	1.1
100	1737	98	3.6
150	1637	97	5.3
300	1436	95	9.8
1000	1078	70	26.3
5000	475	42	86.8

(\*) MONTAKO % KO-ENSIMMAISISTA TUNNEISTA OSUU PE-SU: LLE



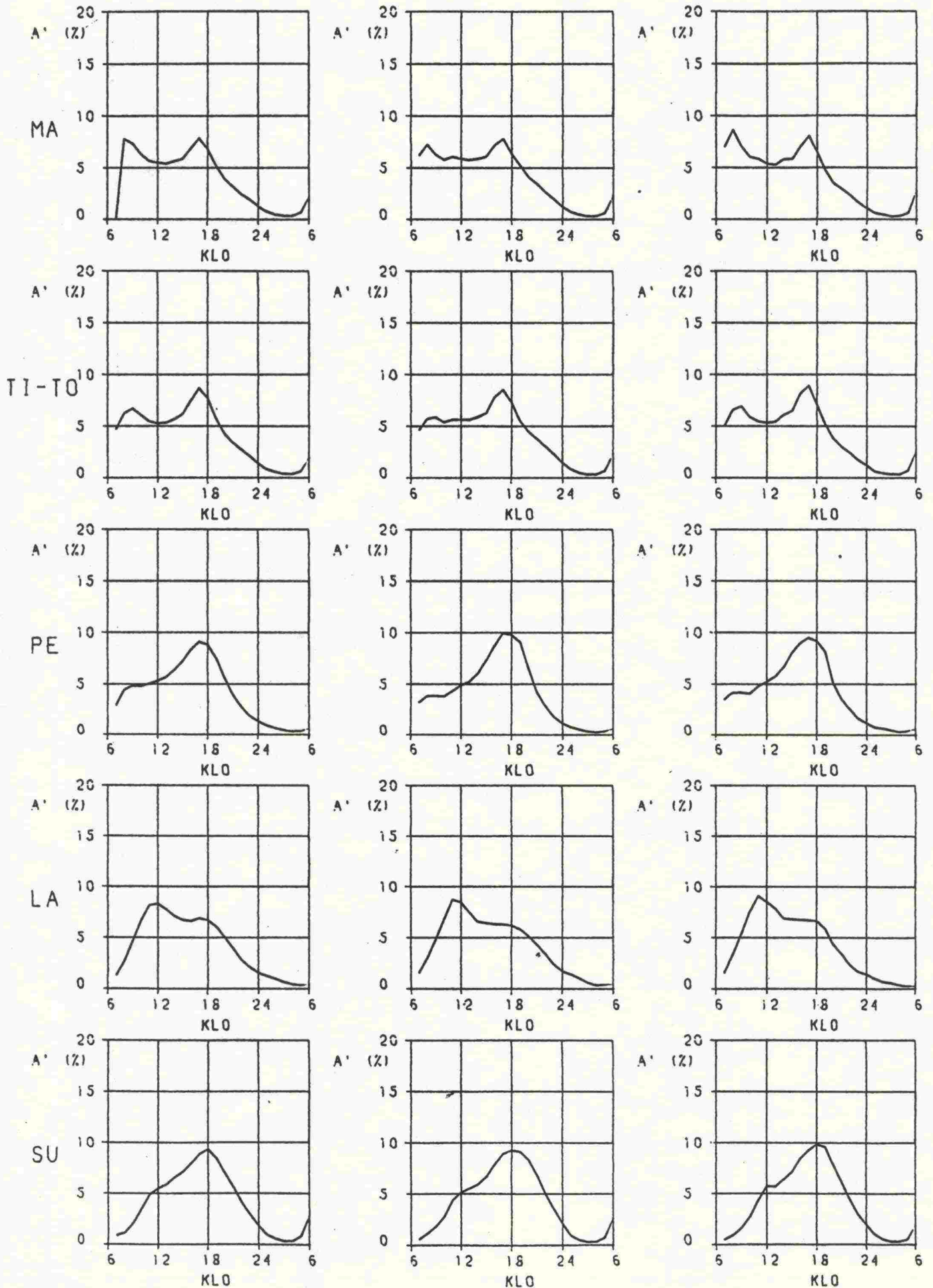


## TUNTIVAIHTELUT

HELMIKUU

HEINAKUU

LOKAKUU



437VIIALA

1987

VT9

TIEOSA 126 ETAISYYS 1.0KM

KVL 5476

B' (SU/KESA) 1.06

KAVL 5261

KKVL 6661

D' 1.21

## ARKILIIKENTEEN KOOSTUMUS

HA 79%

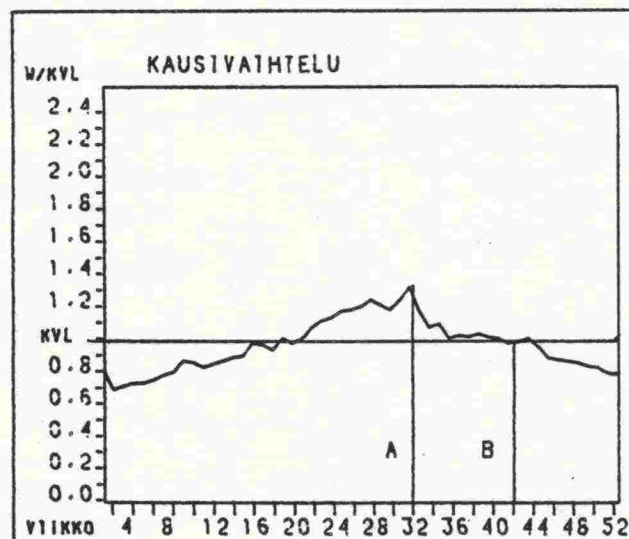
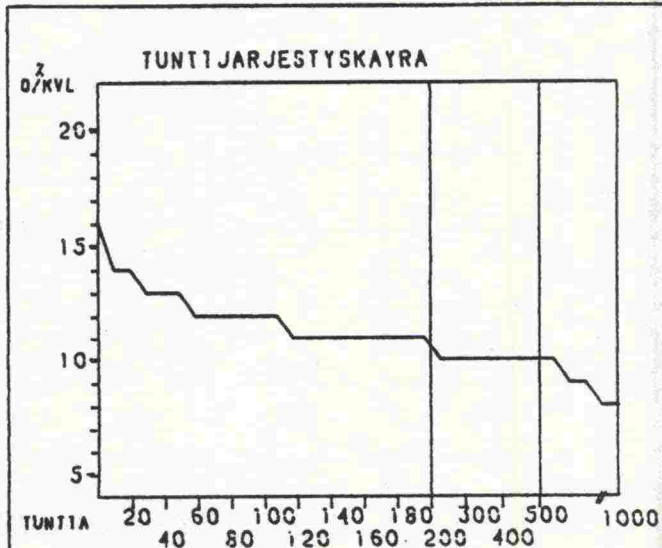
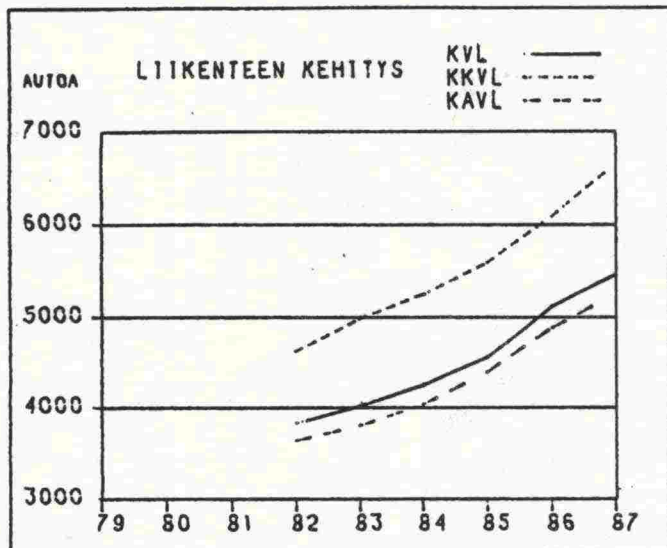
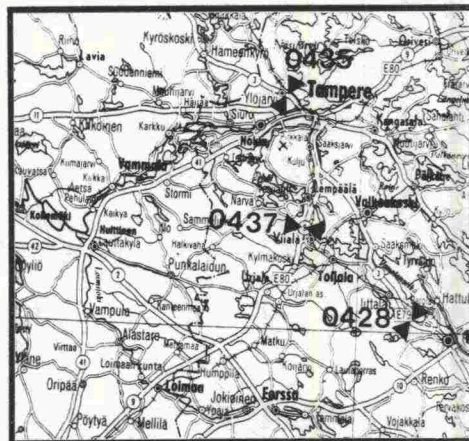
PA 8%

LA 2%

KAIP 5%

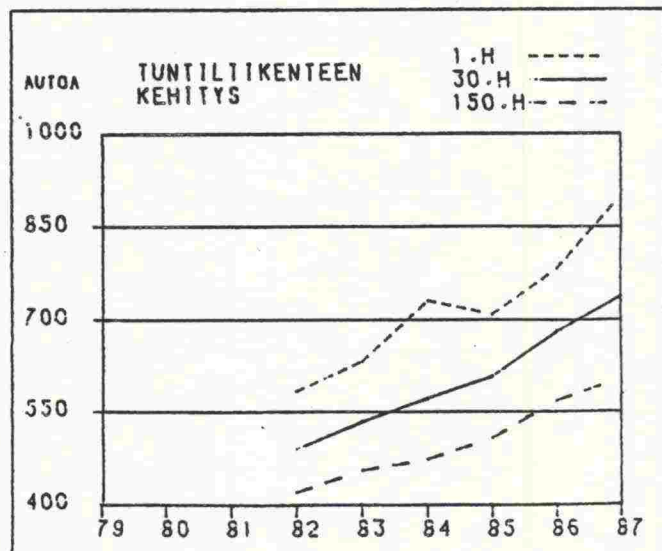
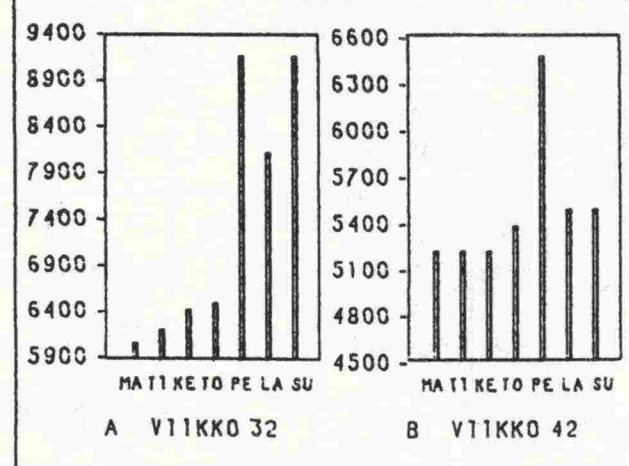
KAPP 1%

KATP 5%



H	Q	PE-SU (°KERTYMA	HTK
1	901	100	0.1
30	739	87	1.2
100	636	93	3.5
150	605	90	5.1
300	540	74	9.4
1000	426	61	26.0
5000	199	41	87.2

(°) MONTAKO 2 KO-ENSIMMAISISTA TUNNEISTA OSU PE-SU:LE

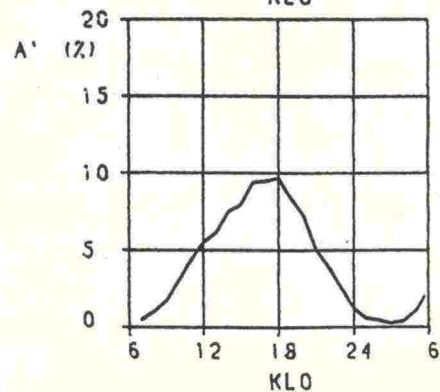
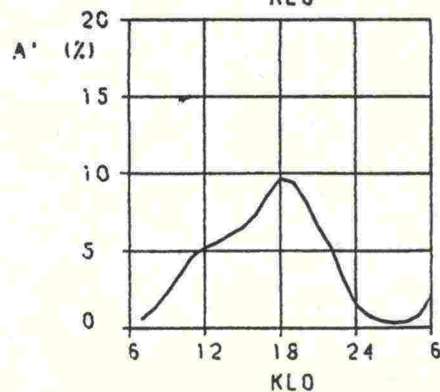
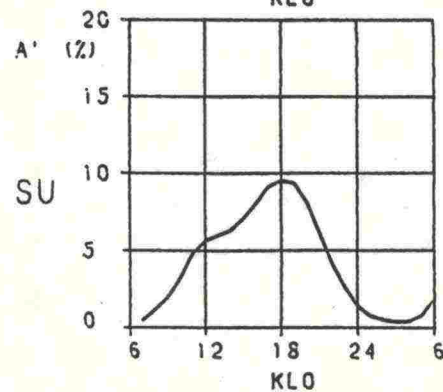
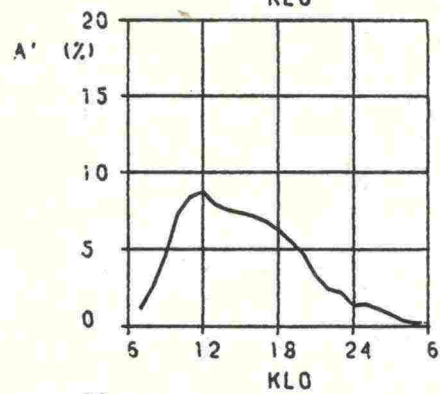
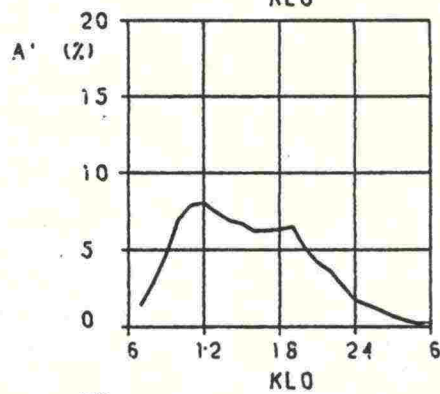
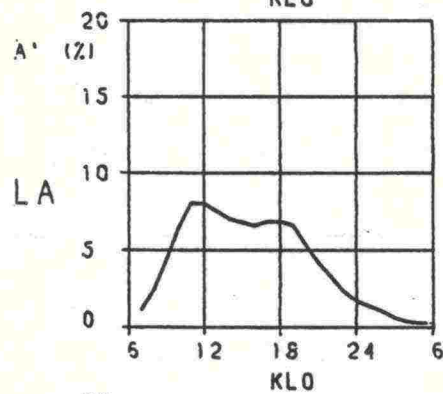
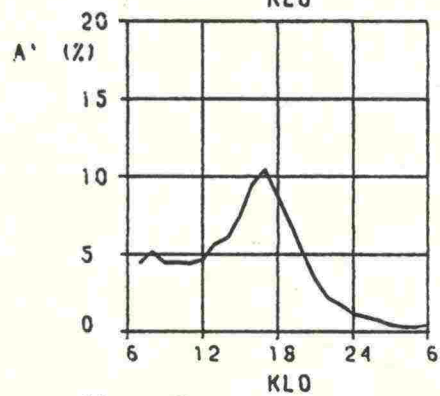
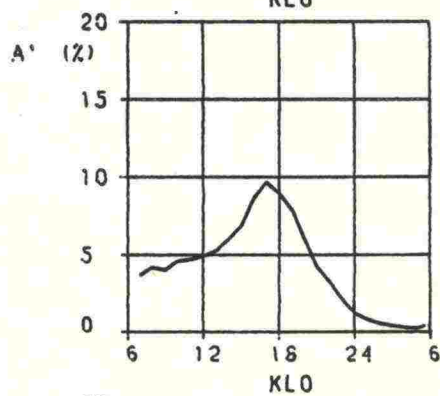
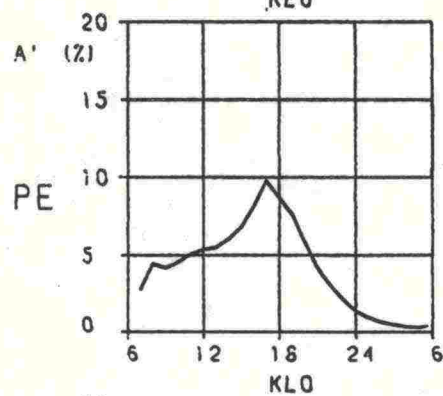
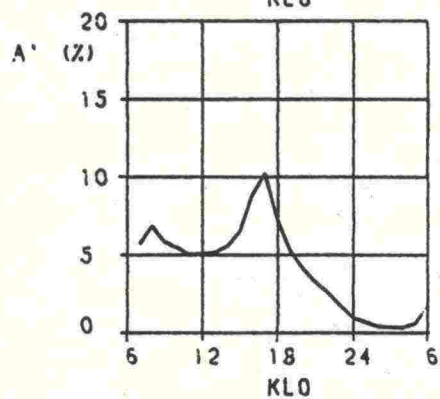
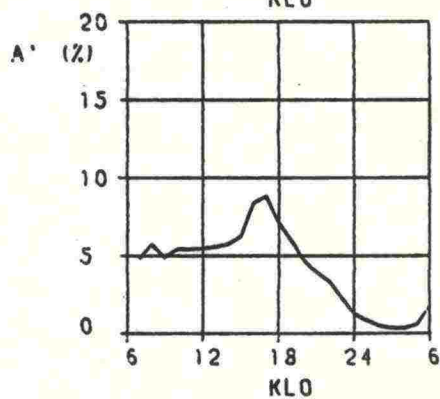
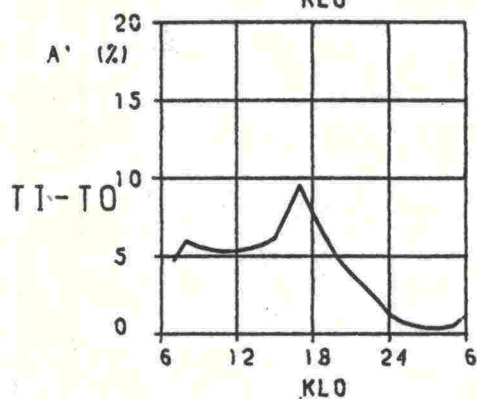
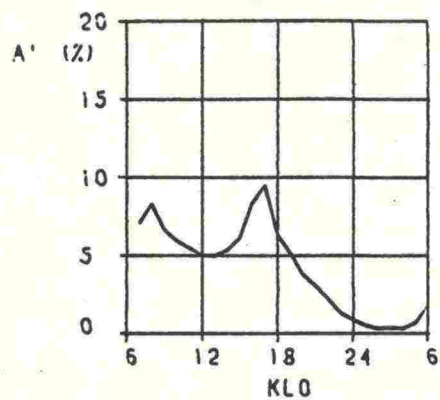
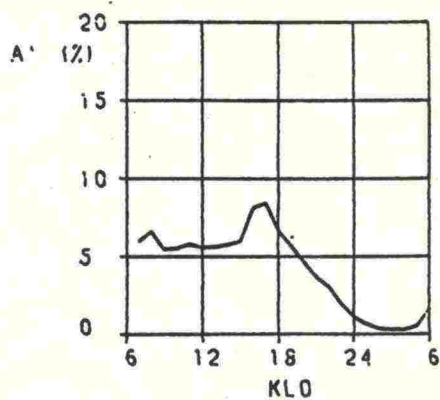
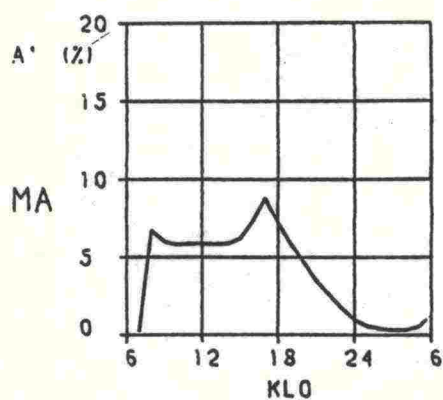




HELMIKUU

HEINAKUU

LOKAKUU



517TUOHIKOTTI

1987

VT15

TIEOSA 15

ETAISYYS 2.0 KM

KVL 2663

B' (SU/KESA) 1.62

KAVL 2124

KKVL 3873

D' 1.45

## ARKILIIKENTEN KOOSTUMUS

HA 82 %

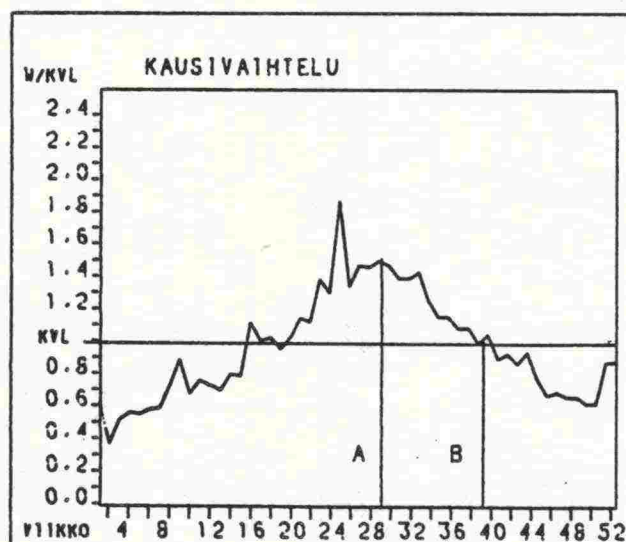
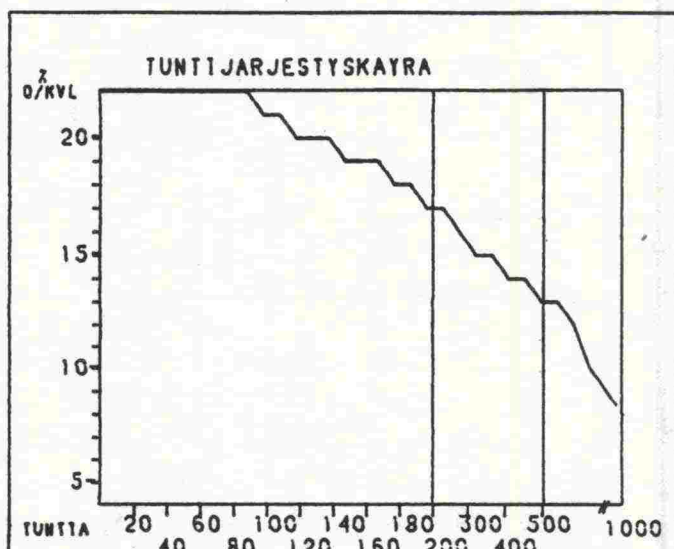
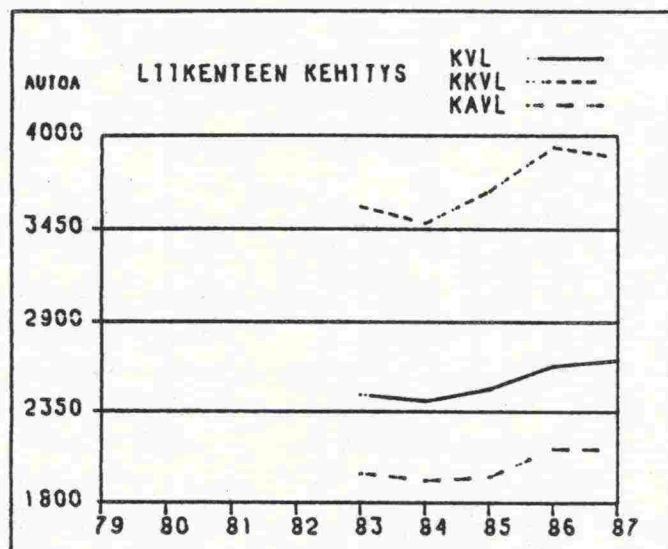
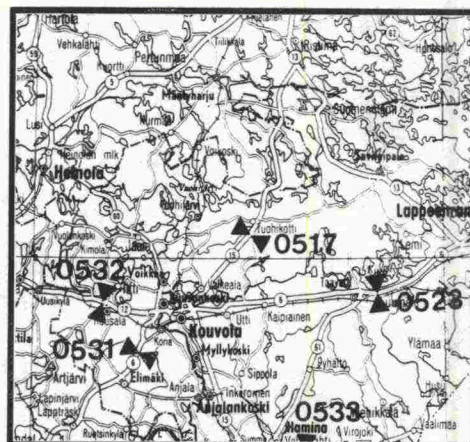
PA 3 %

LA 2 %

KAIP 3 %

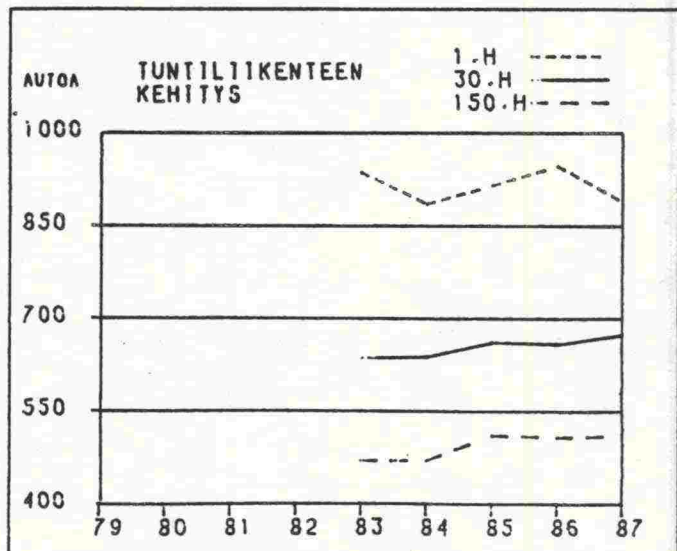
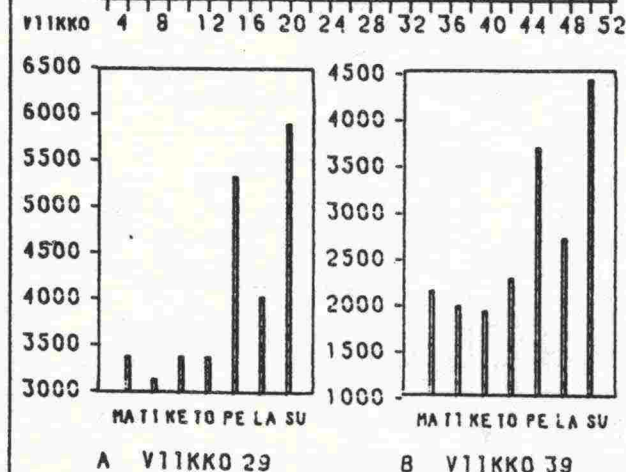
KAPP - %

KATP 10 %



H	O	PE-SU (+KERTYMA)	HTK
1	890	100	0.1
30	674	80	2.3
100	565	93	6.7
150	512	91	9.5
300	381	92	16.3
1000	221	81	36.0
5000	70	42	88.8

(\*) MONTAKO &amp; KO-ENSIMMAISISTA TUNNEISTA OSUU PE-SU:ILLE



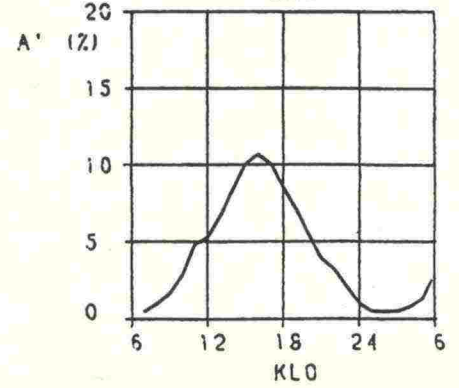
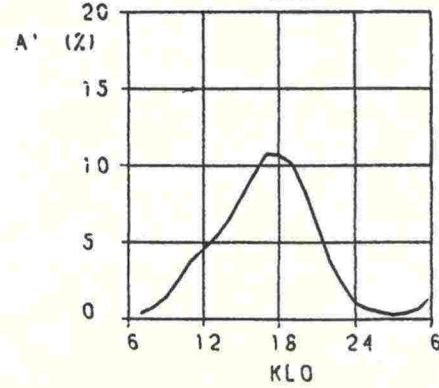
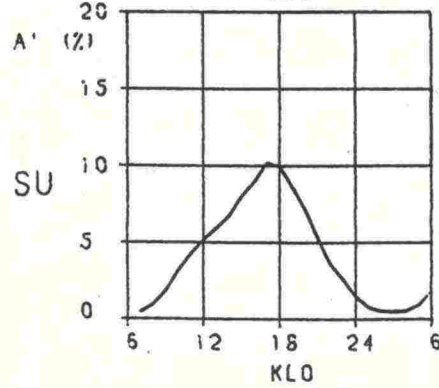
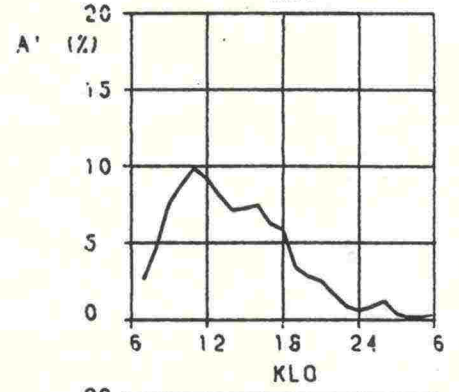
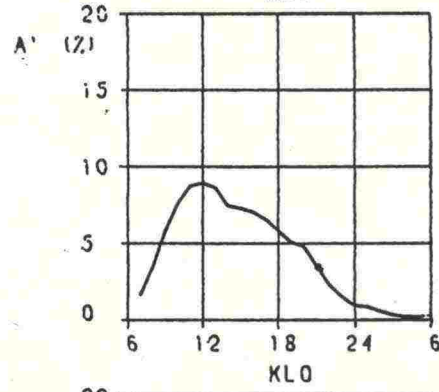
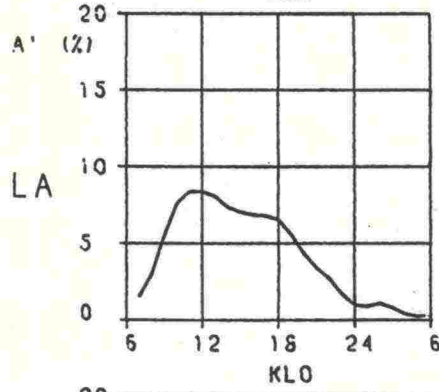
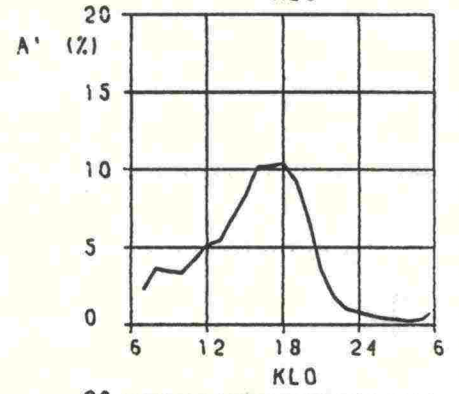
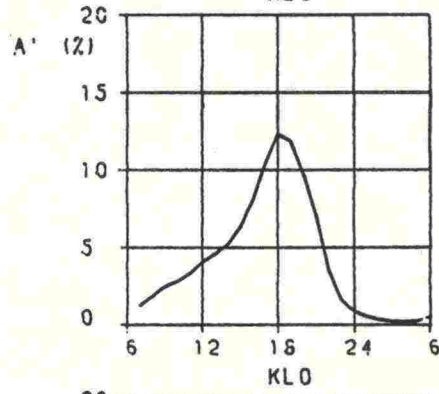
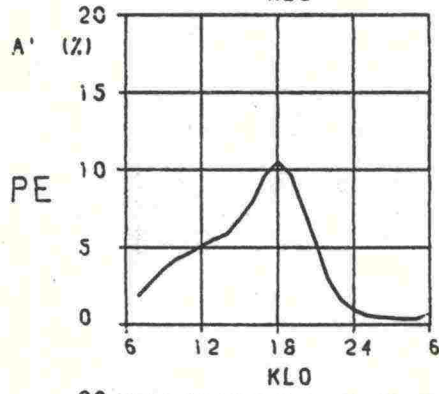
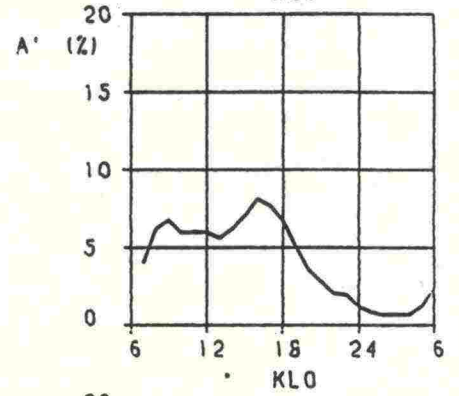
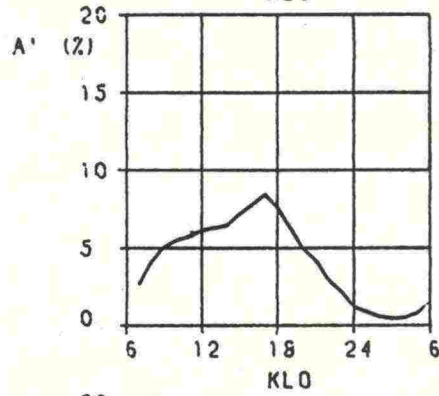
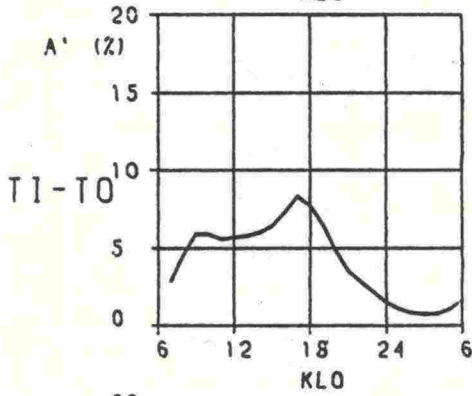
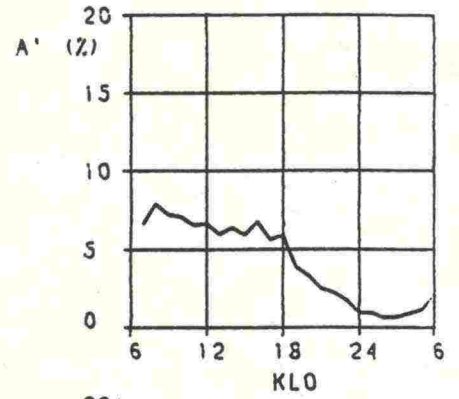
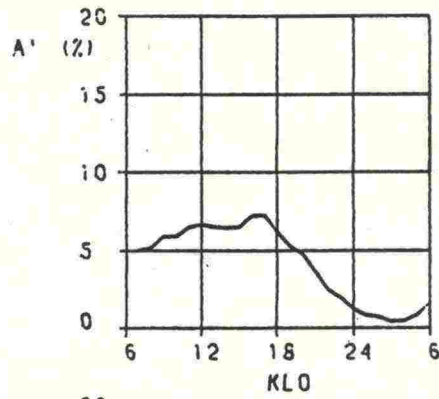
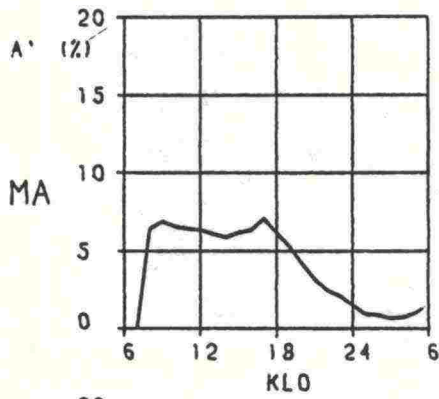


# TUNTIVAIHTELUT

HELMIKUU

HEINAKUU

LOKAKUU



522KOTKA/PYHTÄÄ

1987

VT7

TIEOSA 11 ETAISYYS 1.9 KM

KVL 6073

B' (SU/KESA) 1.04

KAVL 5953

KKVL 7072

D' 1.16

## ARKILIIKENTEEEN KOOSTUMUS

HA 79%

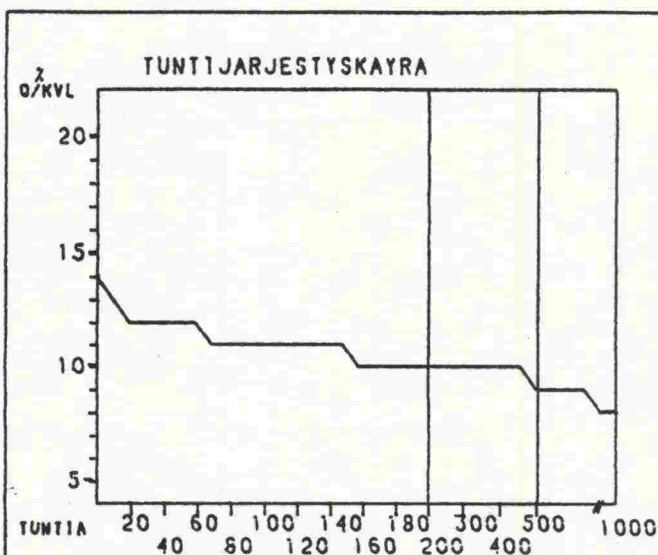
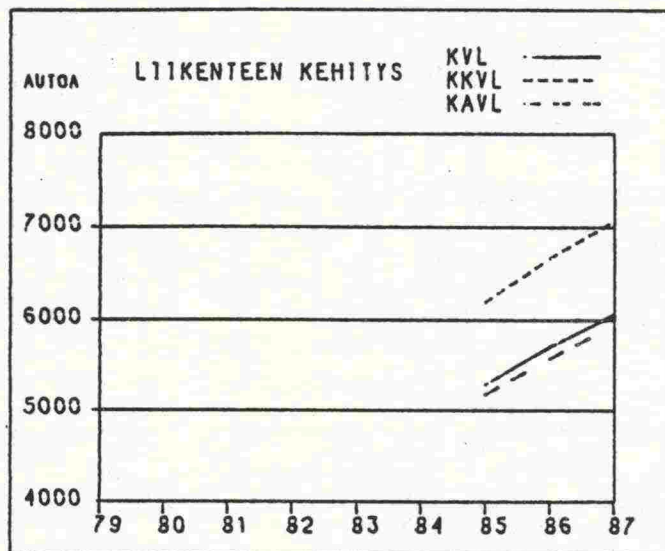
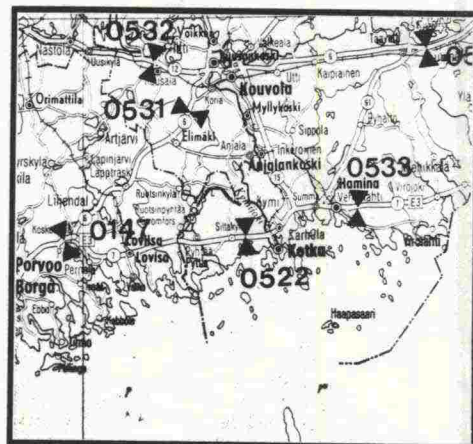
PA 7%

LA 2%

KAIP 4%

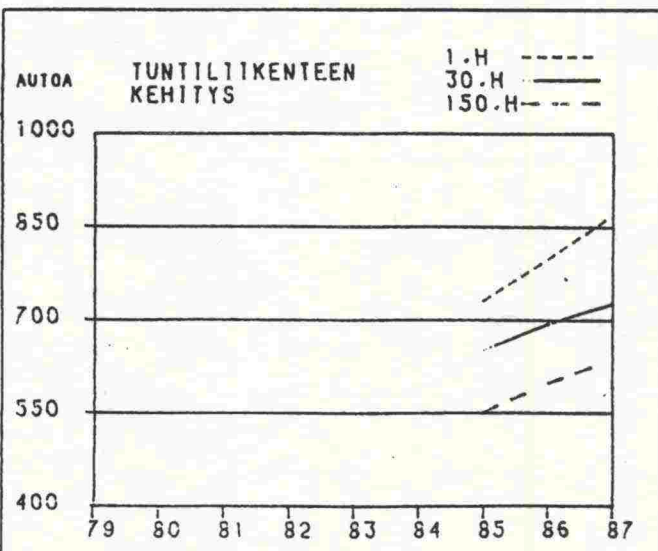
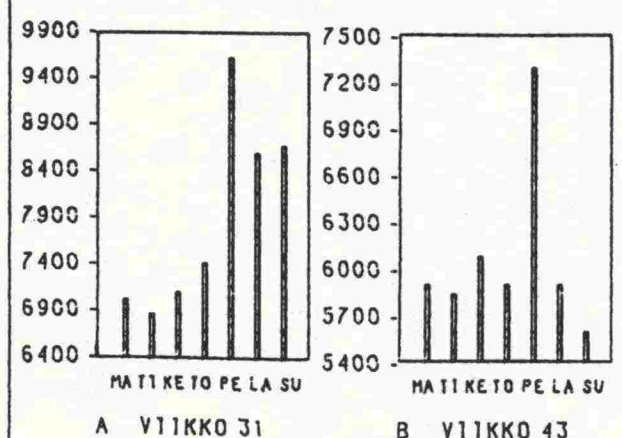
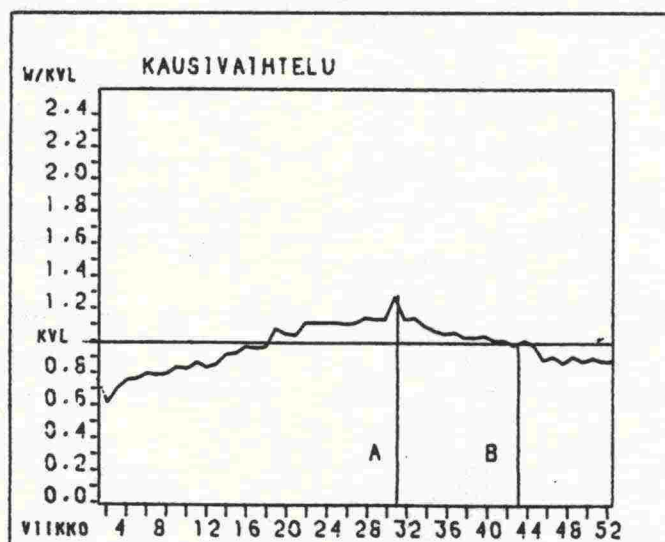
KAPP 2%

KATP 6%



H	Q	PE-SU (*)	KERTYMA	HTK
1	871	100	0.1	0.95
30	728	97	1.0	0.93
100	664	93	3.2	0.89
150	638	91	4.7	0.90
300	565	77	8.8	0.89
1000	471	62	25.3	0.93
5000	208	41	87.0	-

(\*) MONTAKO % KO-ENSIMMAISISTA TUNNEISTA OSUU PE-SU-LLE



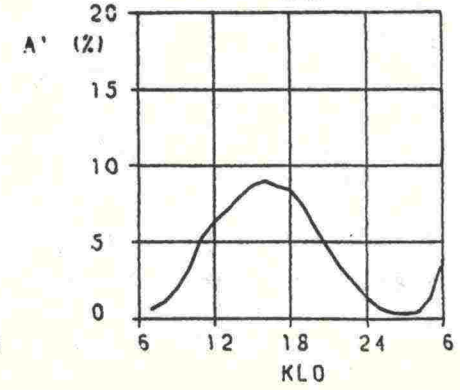
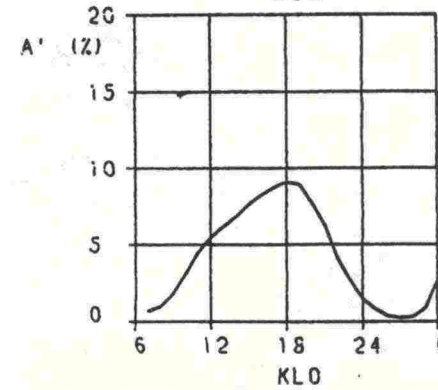
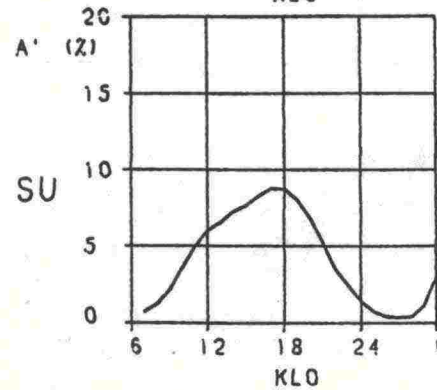
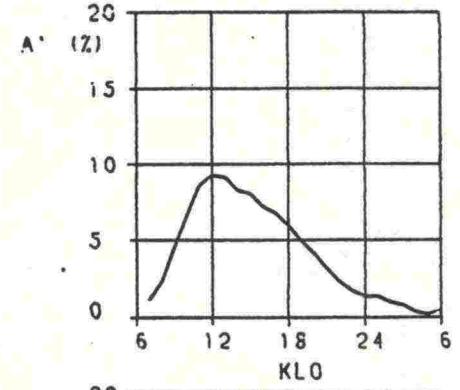
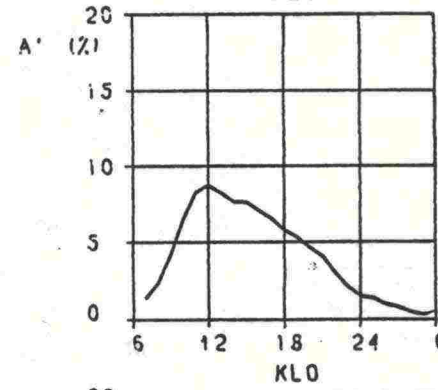
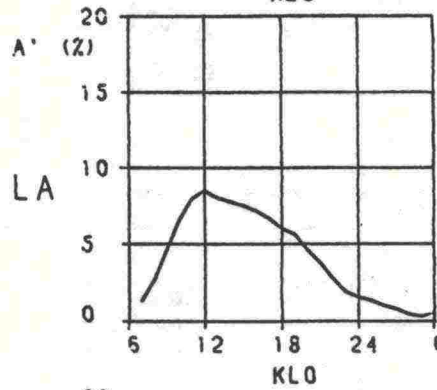
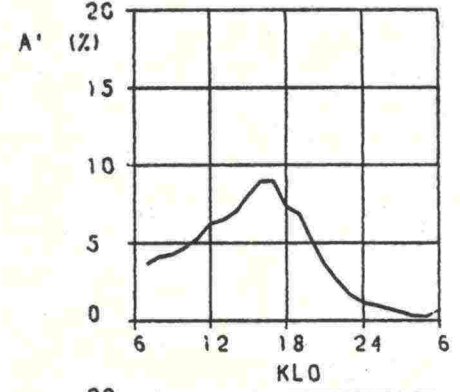
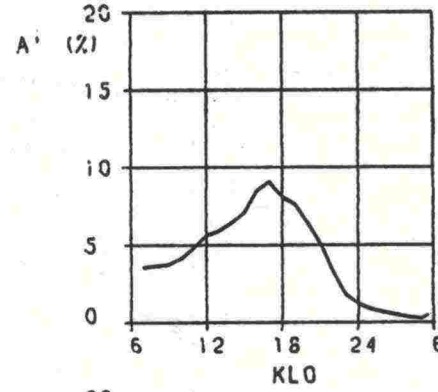
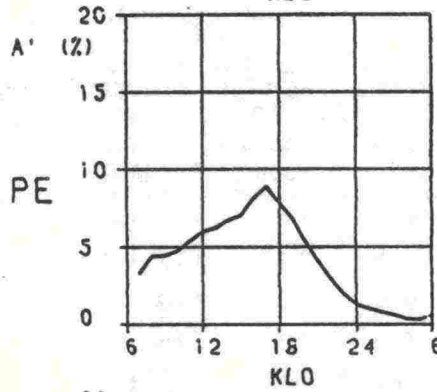
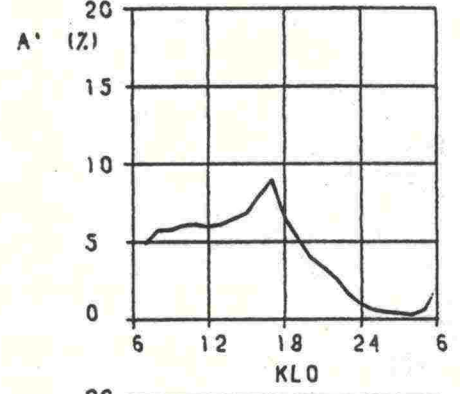
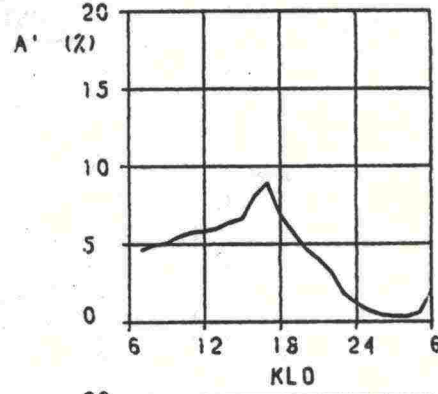
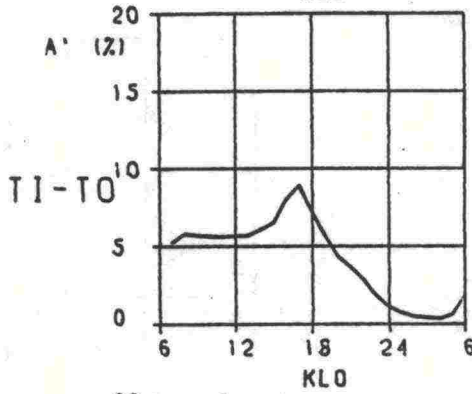
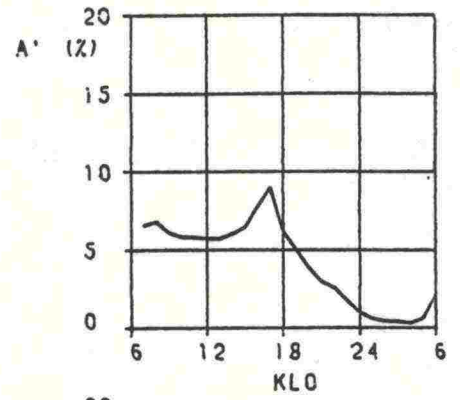
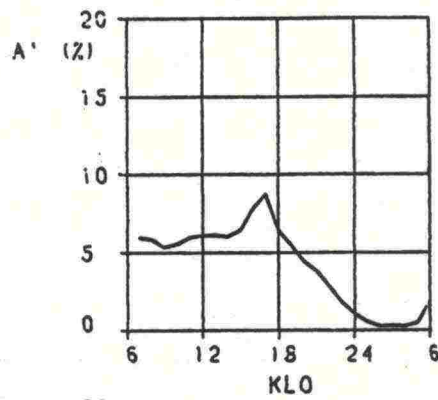
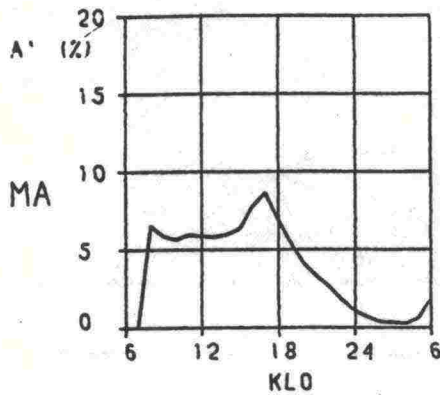


## TUNTIVAIHTELUT

HELMIKUU

HEINAKUU

LOKAKUU



523TAAVETTI

1987

VT6

TIEOSA 210 ETAISYYS 3.0KM

KVL 6125

B' (SU/KESA) 1.21

KAVL 5614

KKVL 8023

D' 1.30

## ARKILIIKENTEN KOOSTUMUS

HA 77%

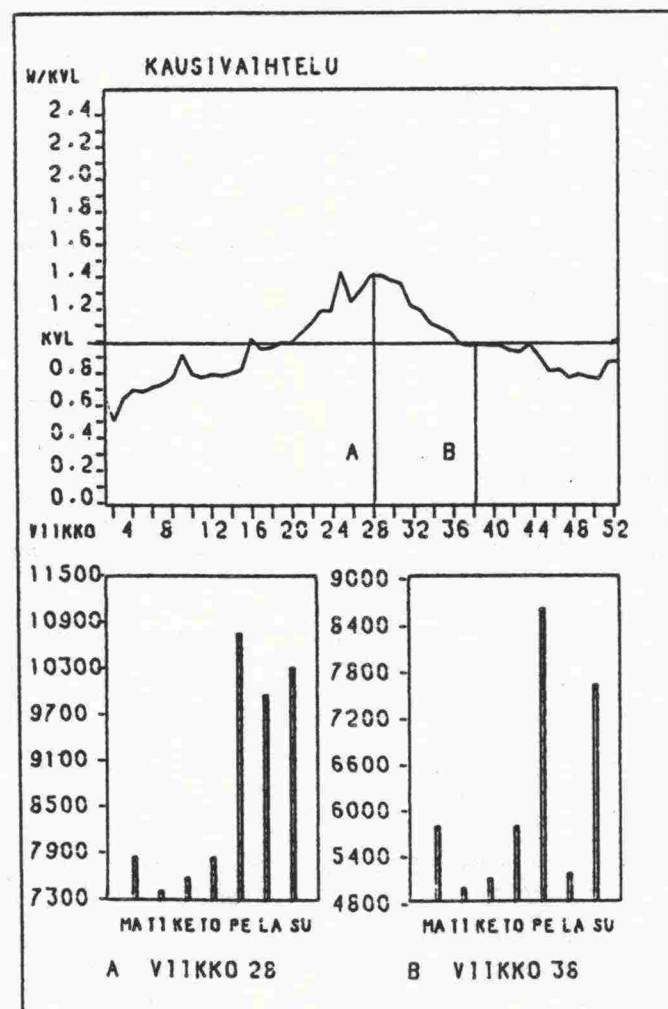
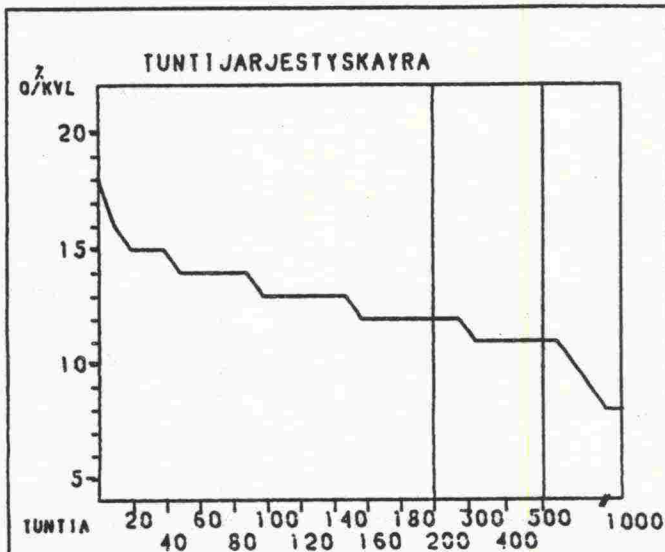
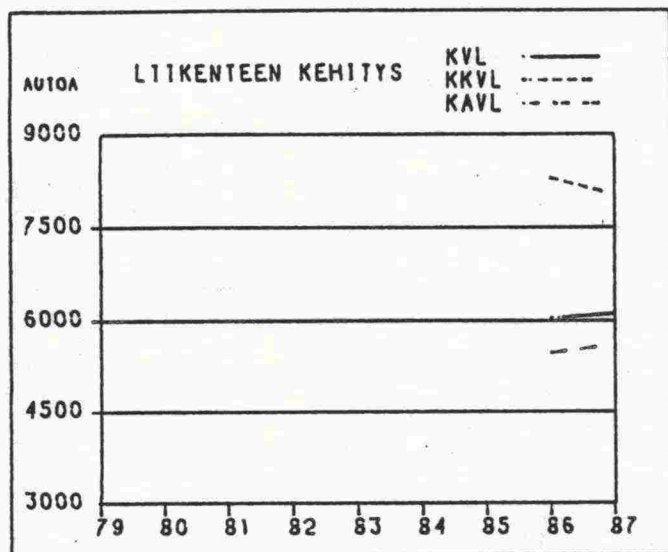
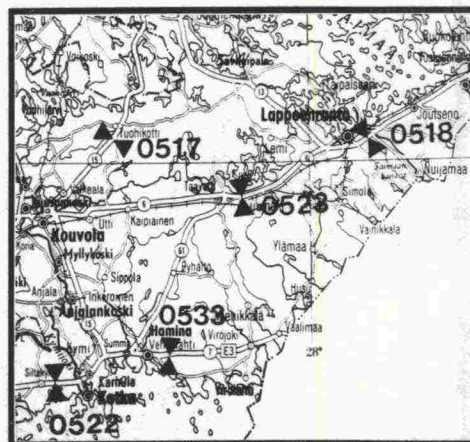
PA 5%

LA 2%

KAIP 4%

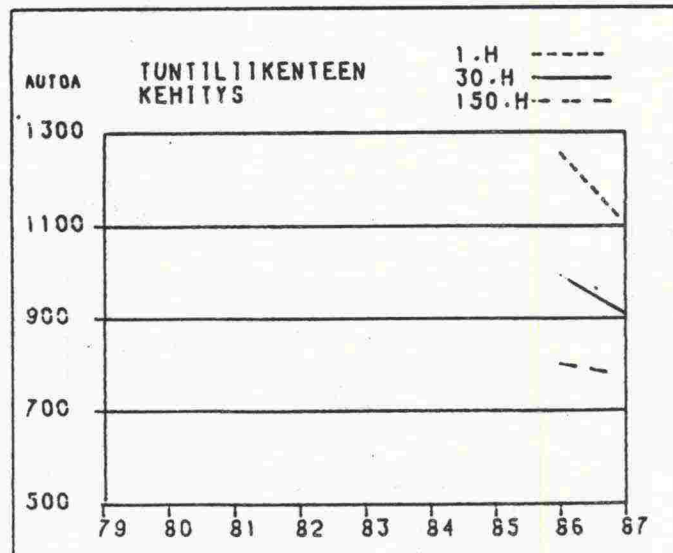
KAPP 2%

KATP 10%



H	Q	PE-SU (KERTYMA)	HTK
1	1104	100	0.1
30	909	83	1.3
100	818	88	4.0
150	775	89	5.8
300	678	91	10.7
1000	481	70	28.1
5000	200	43	85.8

(\*) MONTAKO 2 KO-ENSIMMAISISTA TUNNEISTA OSUU PE-SU-LLE



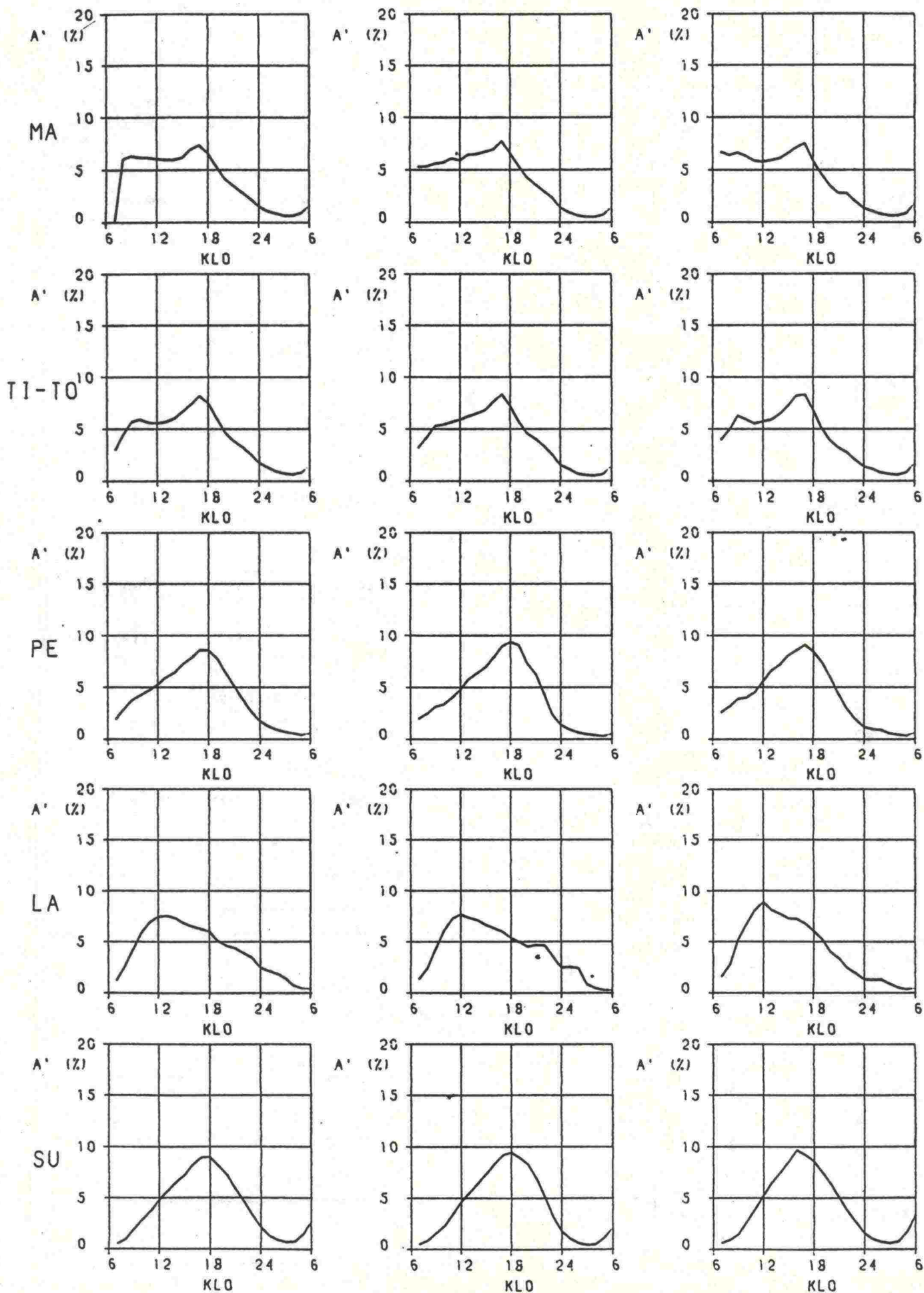


## TUNTIVAIHTELUT

HELMIKUU

HEINAKUU

LOKAKUU



531 ELIMÄKI

1987

VT6

TIEOSA 127 ETAISYYS 0.5 KM

KVL 5906

B' (SU/KESA) 1.39

KAVL 5191

KKVL 7624

D' 1.29

## ARKILIIKENTEN KOOSTUMUS

HA 82 %

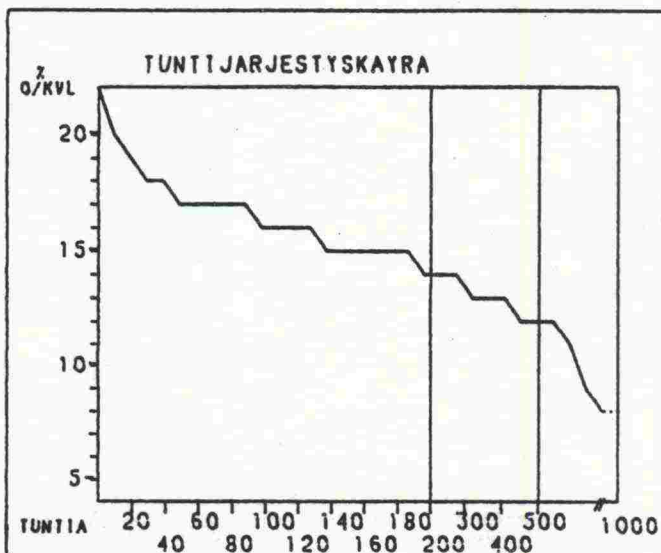
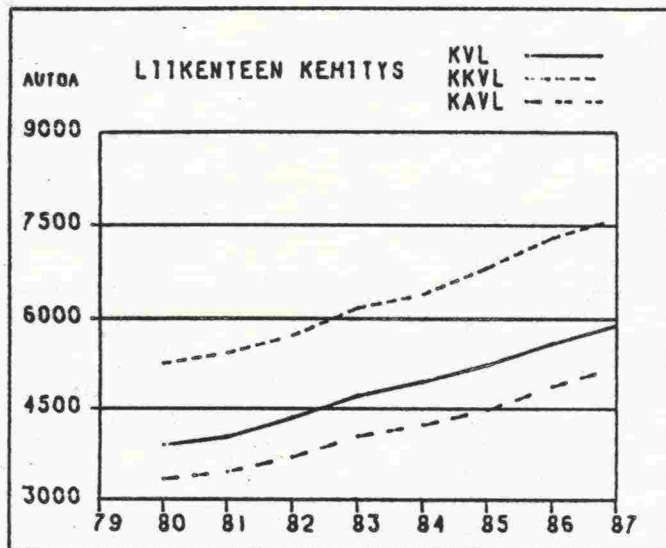
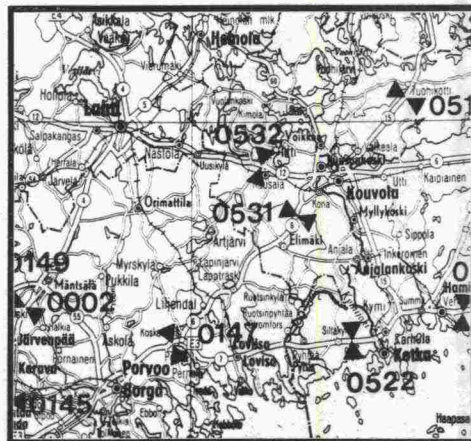
PA 6 %

LA 2 %

KAIP 3 %

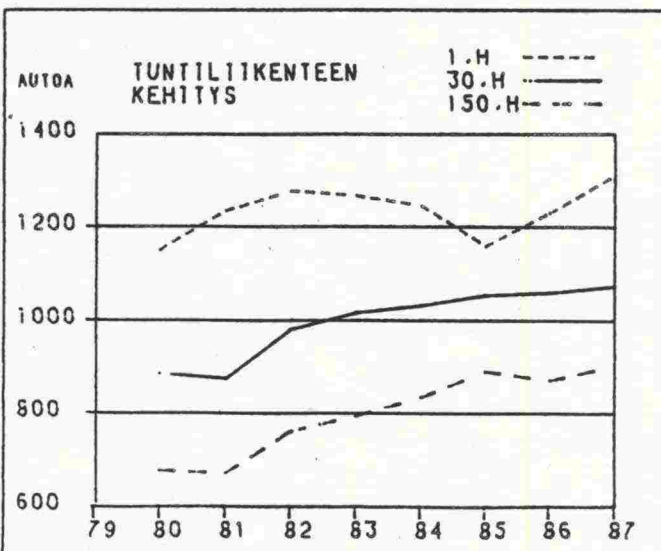
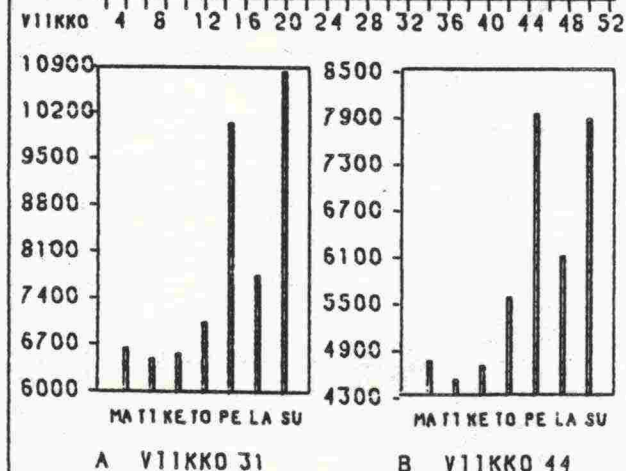
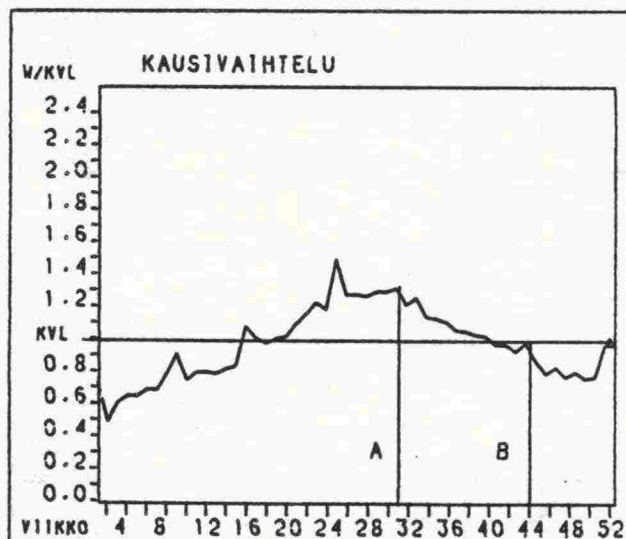
KAPP 1 %

KATP 6 %



H	Q	PE-SU (• KERTYMA)	HTK
1	1312	100	0.1
30	1075	93	1.6
100	972	93	4.9
150	904	91	7.1
300	747	90	12.6
1000	466	77	30.9
5000	188	42	87.4

(•) MONTAKO % KO. ENSIMMAISISTA TUNNEISTA OSUU PE-SU: LLE



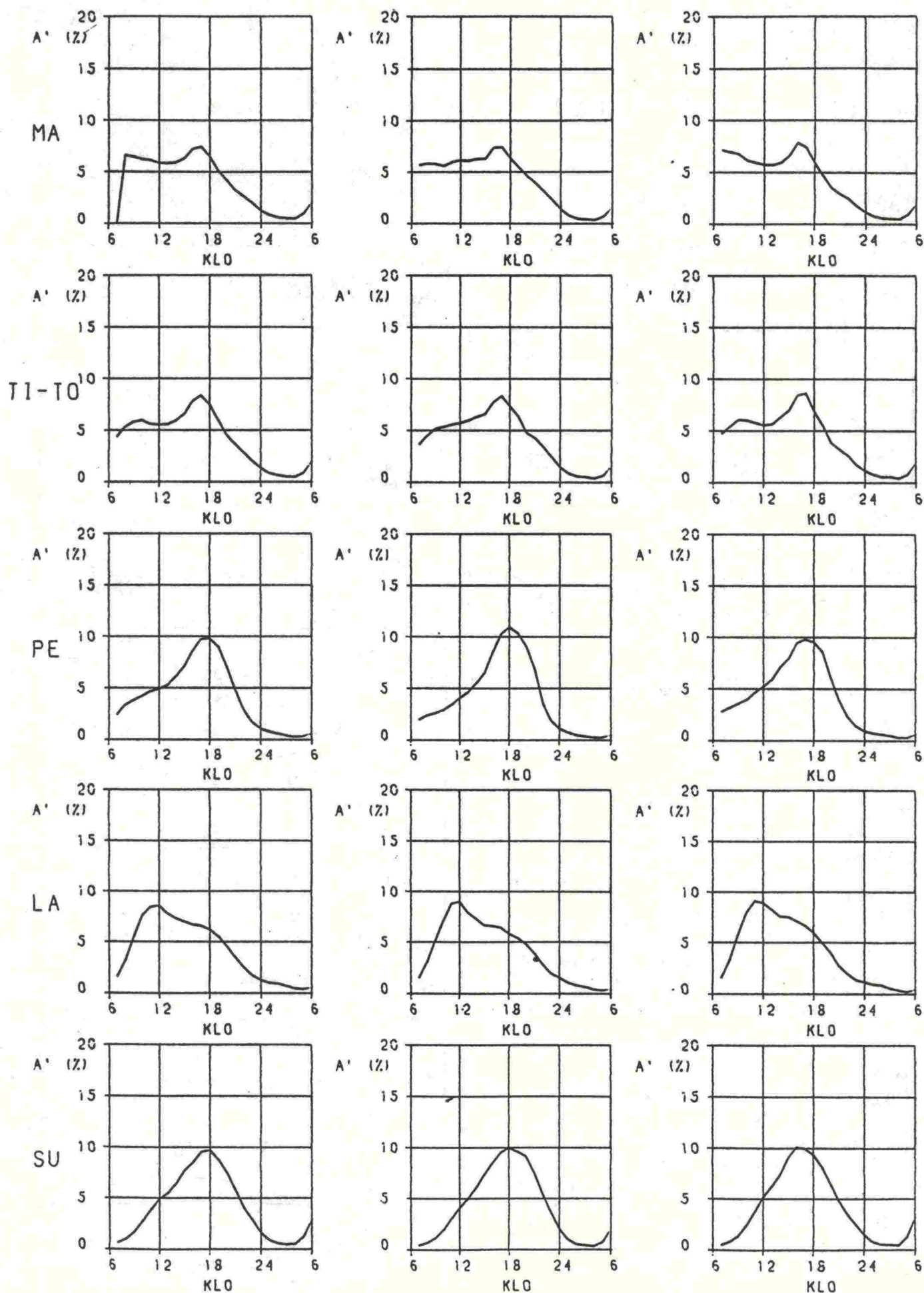


## TUNTIVAIHTELUT

HELMIKUU

HEINAKUU

LOKAKUU



532KAUSALA

1987

VT12 TIEOSA 30 ETAISYYS 0.0KM

KVL 5389

B' (SU/KESA) 1.18

KAVL 5053

KKVL 6809

D' 1.26

## ARKILIIKENTEN KOOSTUMUS

HA 75%

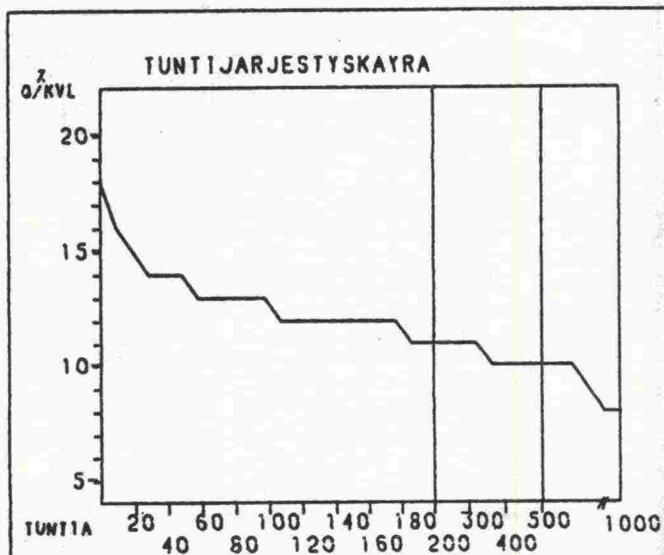
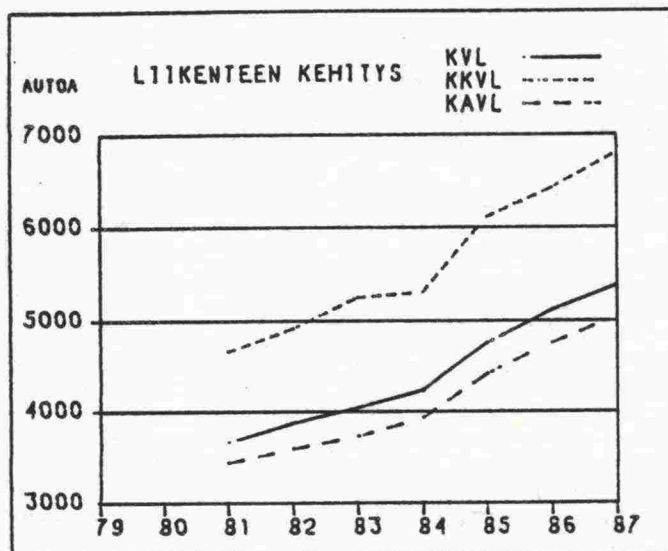
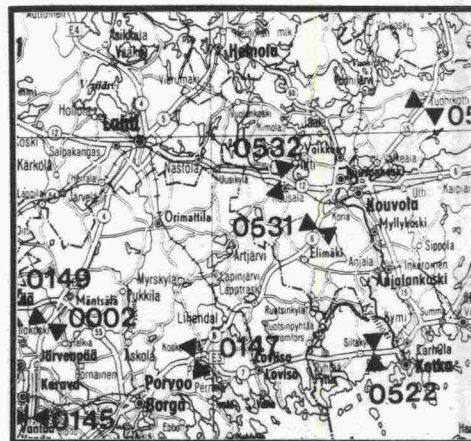
PA 6%

LA 1%

KAIP 6%

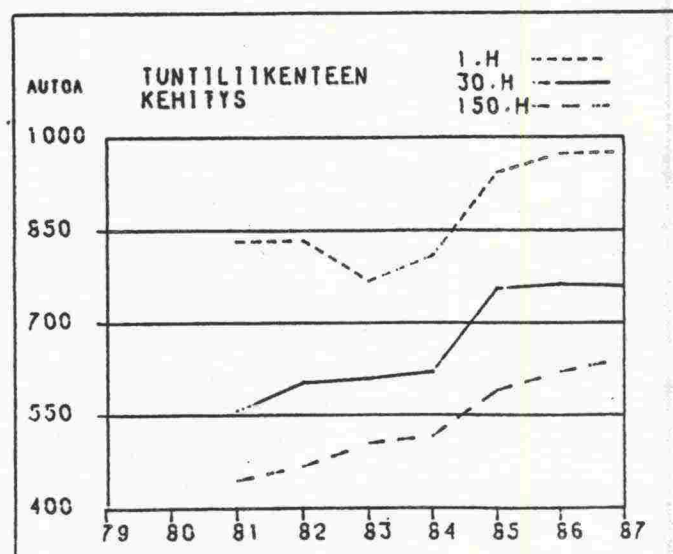
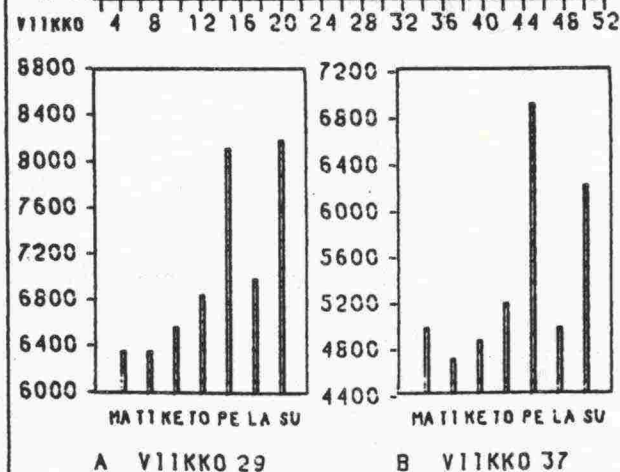
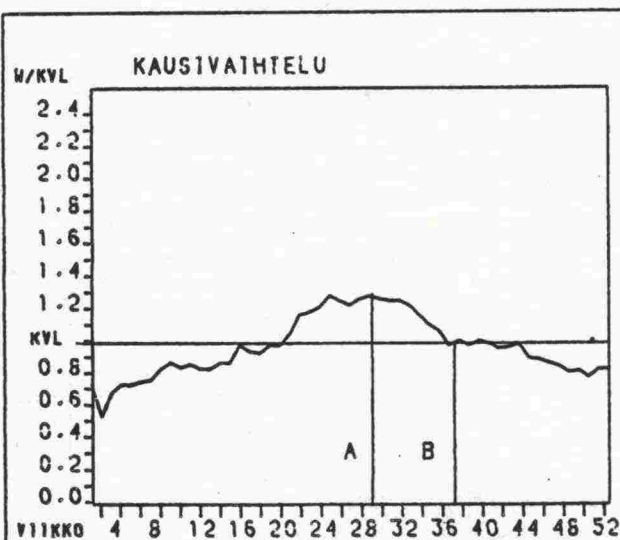
KAPP 1%

KATP 11%



H	Q	PE-SU (+KERTYMA)	HTK
1	976	100	0.1
30	760	87	1.3
100	675	94	3.8
150	641	93	5.5
300	553	89	10.0
1000	423	69	26.9
5000	179	42	86.9

(+) MONTAKO % KO-ENSIMMAISISTA TUNNEISTA OSUUS PE-SU:LE

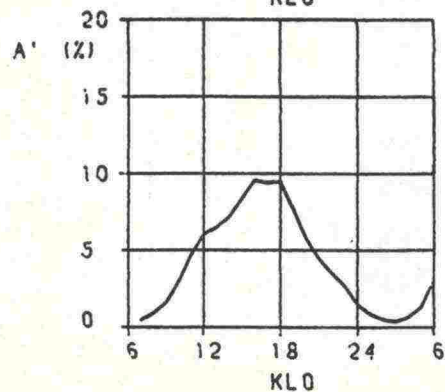
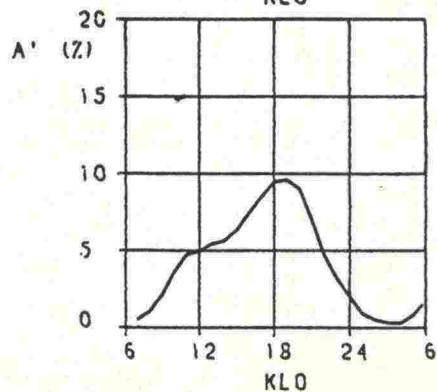
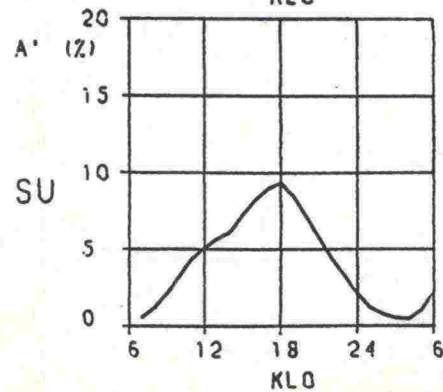
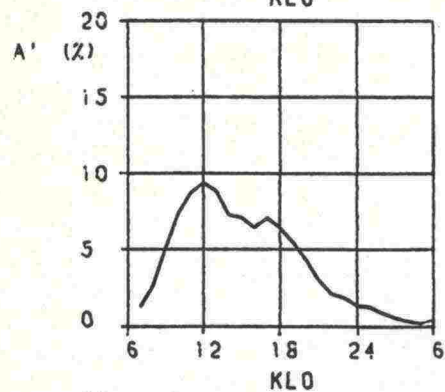
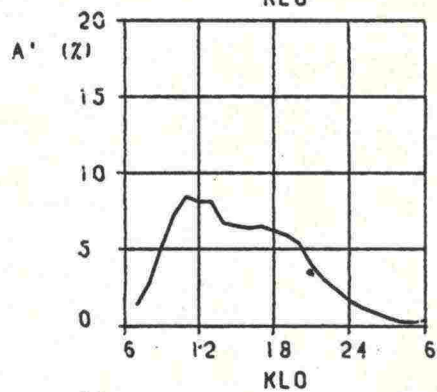
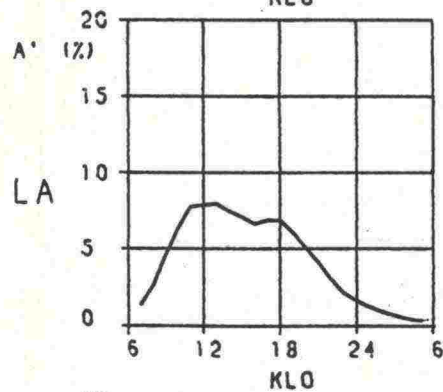
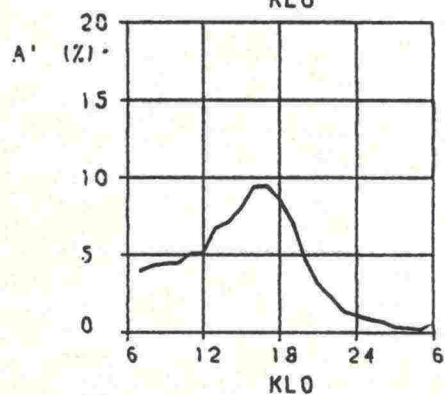
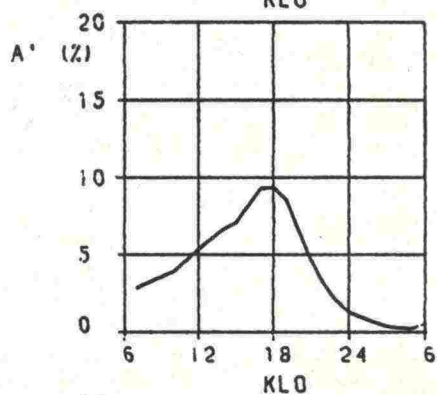
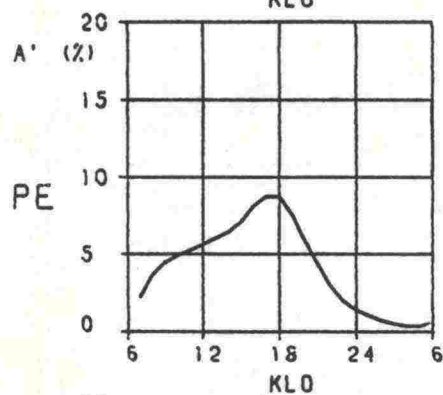
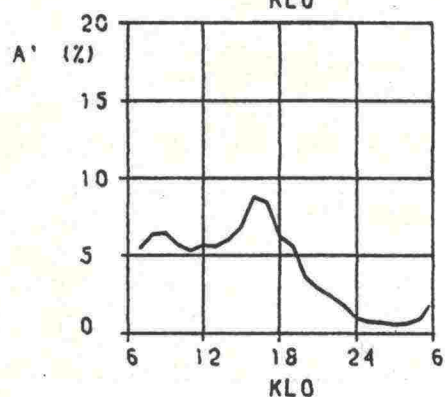
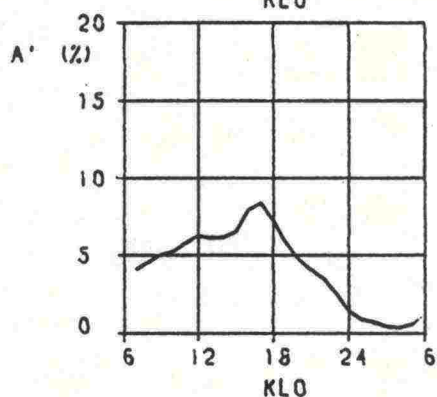
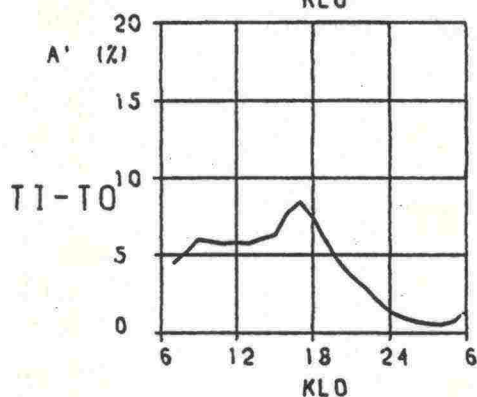
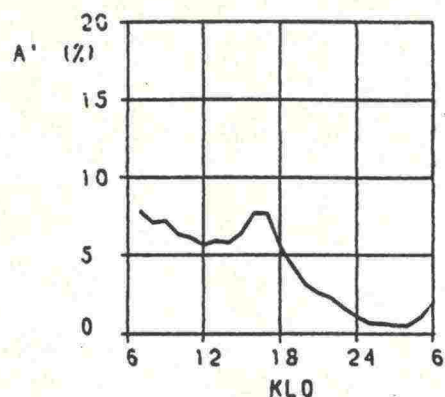
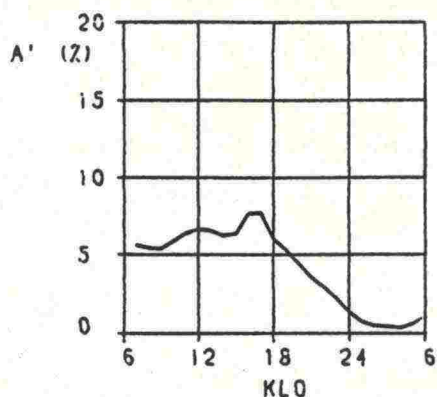
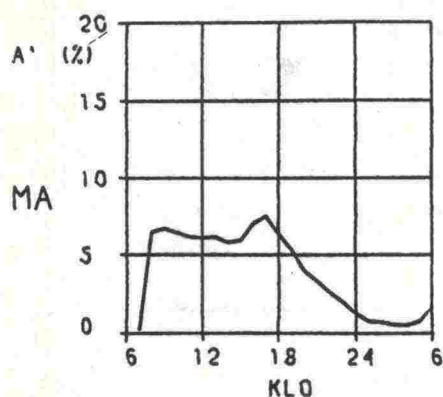




## HELMIKUU

## HEINAKUU

## LOKAKUU



533VEHKALAHTI

1987

VT7 TIEOSA 36 ETAISYYS 0.2 KM

KVL 2327 B' (SU/KESA) 1.14

KAVL 2205

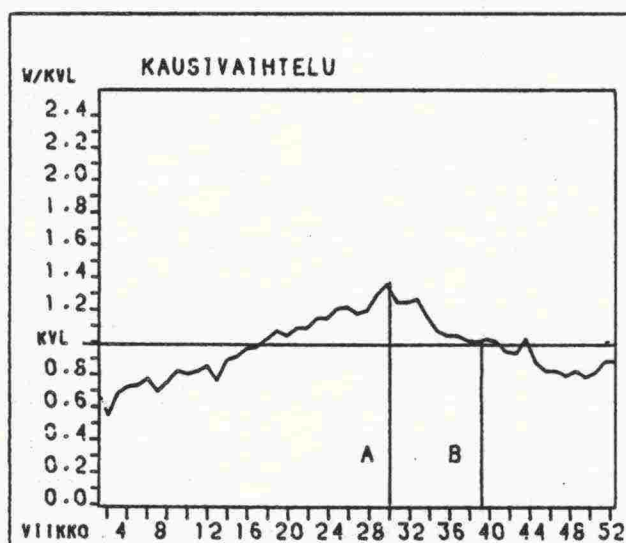
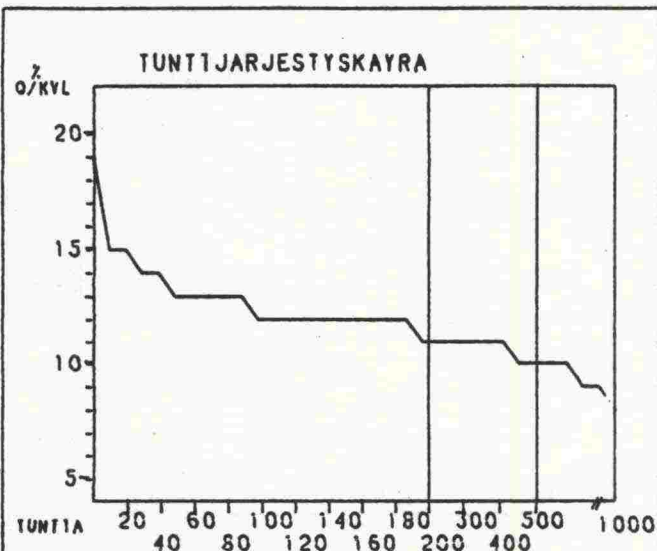
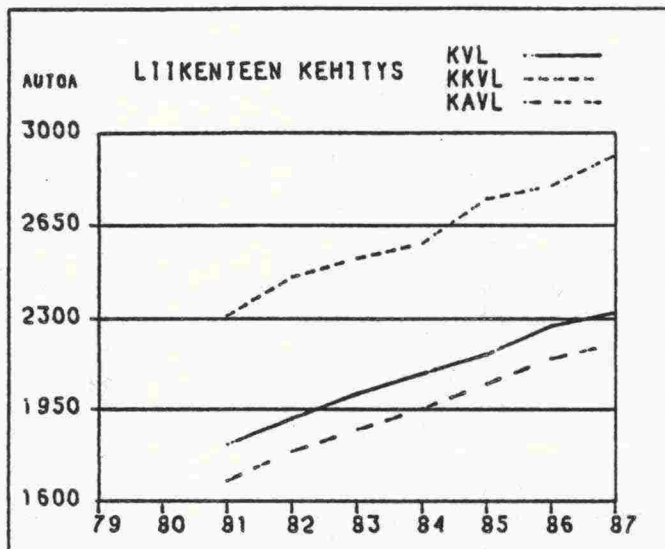
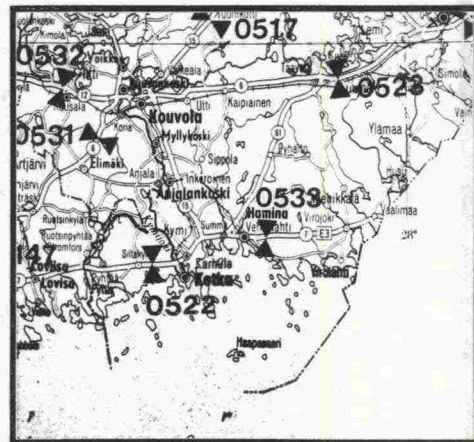
KKVL 2918 D' 1.25

## ARKILIIKENTEN KOOSTUMUS

HA 78% PA 8 %

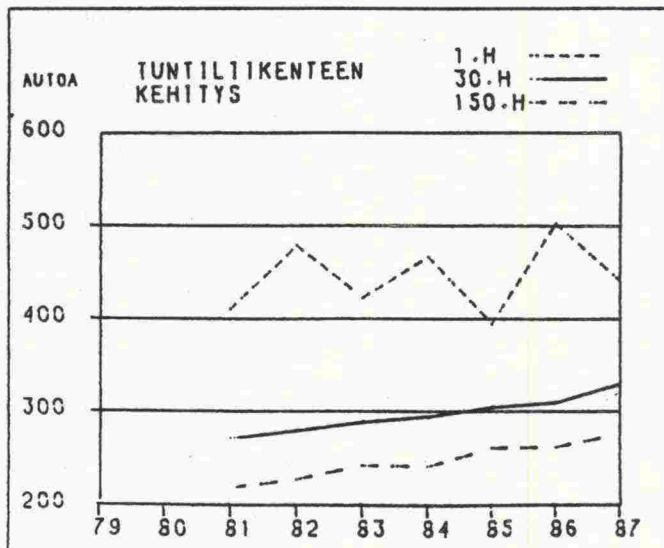
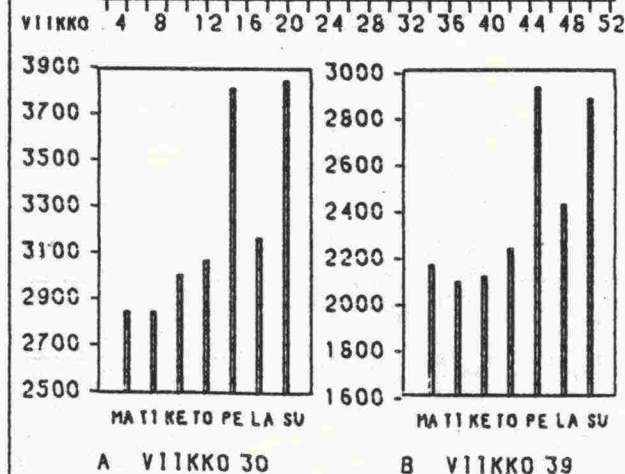
LA 2 % KAIP 6 %

KAPP 2 % KATP 4 %



H	Q	PE-SU (KERTYMA)	HTK
1	442	100	0.1
30	330	97	1.3
100	289	95	3.8
150	277	93	5.4
300	246	82	10.0
1000	189	61	27.5
5000	76	41	88.7

1-1) MONTAKO % KO-ENSIMMAISISTA TUNNEISTA OSUU PE-SU-LLE



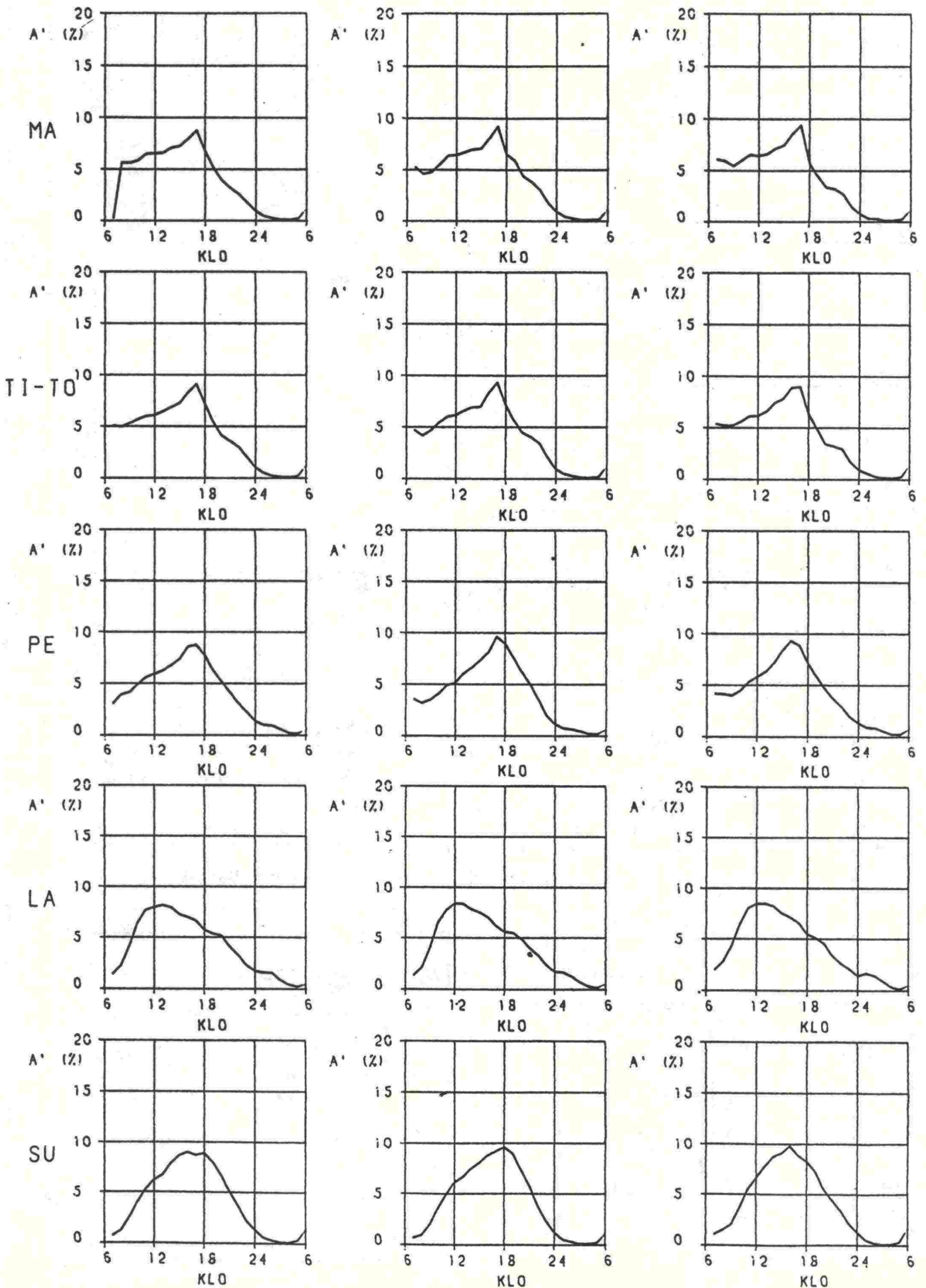


## TUNTIVAIHTELUT

HELMIKUU

HEINAKUU

LOKAKUU



620HARTOLA

KT59

TIEOSA 9

ETAISYYS 2.6 KM

1987

KVL 2804

B' (SU/KESA) 1.43

KAVL 2309

KKVL 3892

D' 1.38

## ARKILIIKENTEEN KOOSTUMUS

HA 78 %

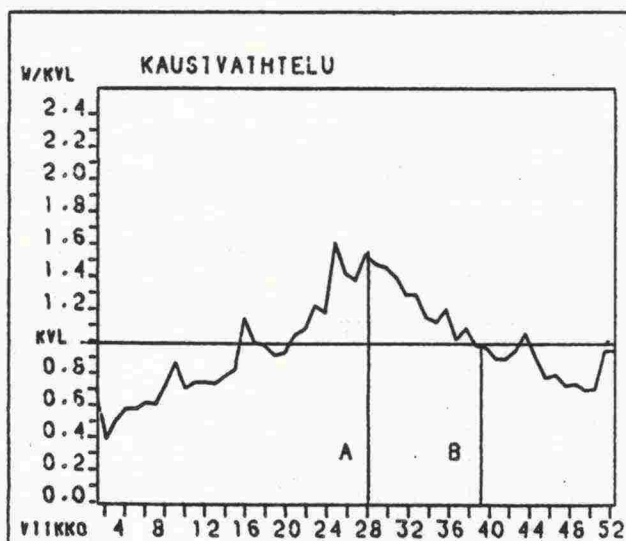
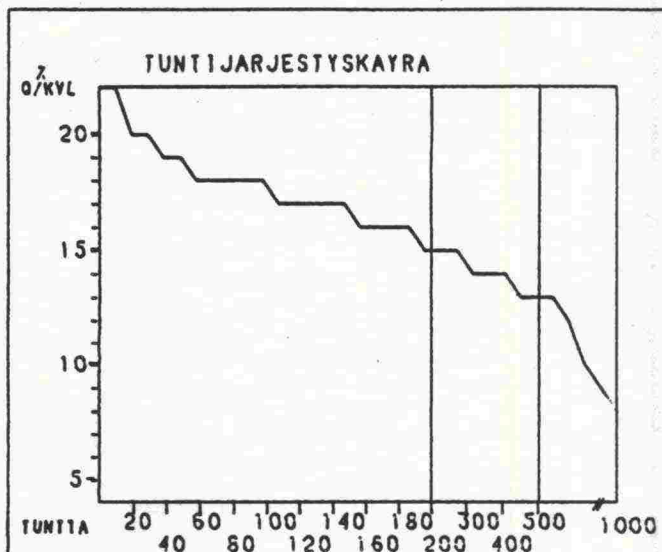
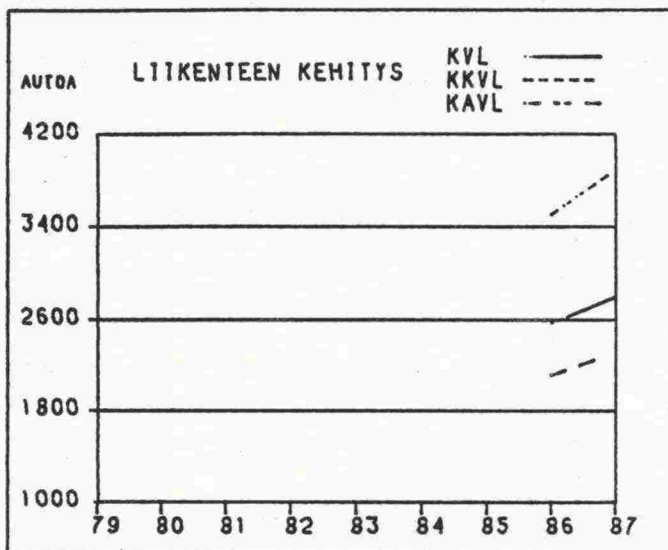
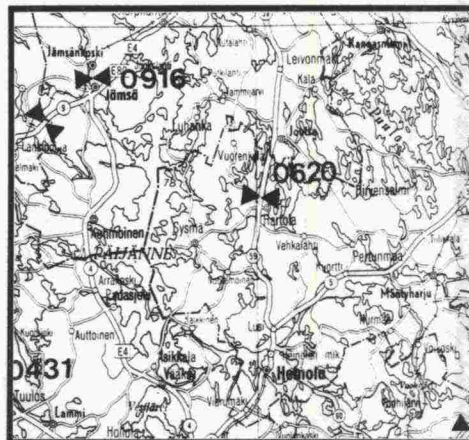
PA 5 %

LA 2 %

KAIP 4 %

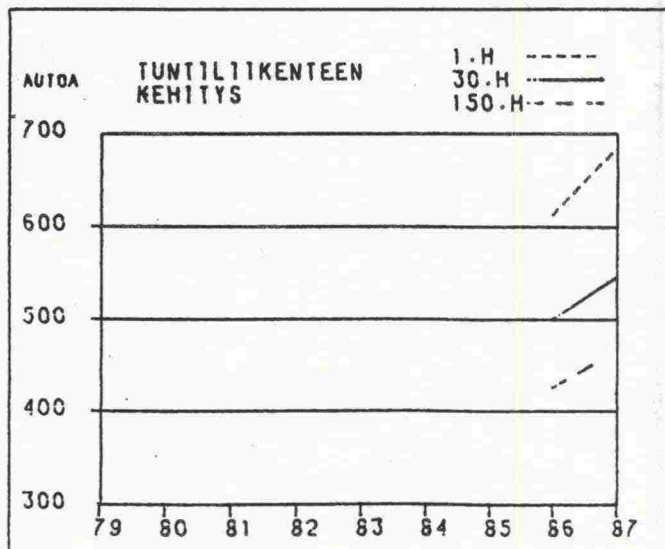
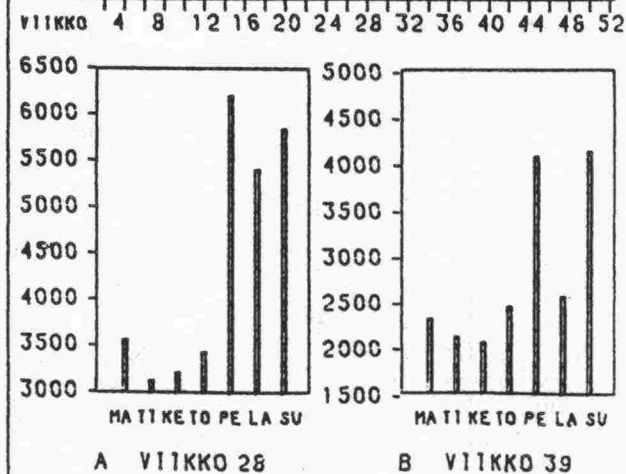
KAPP 1 %

KATP 10 %



H	Q	PE-SU (%)	KERTYMA	HTK
1	666	100	0.1	0.80
30	547	83	1.7	0.92
100	494	94	5.3	0.90
150	466	93	7.6	0.91
300	379	91	13.6	0.87
1000	232	80	33.3	0.88
5000	60	44	86.7	0.83

(\*) MONTAKO 2 KO-ENSIMMAISISTA TUNNEISTA OSUU PE-SU:LE

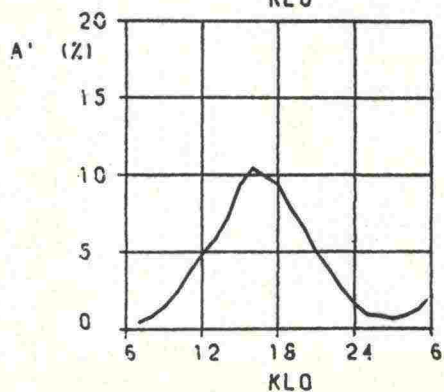
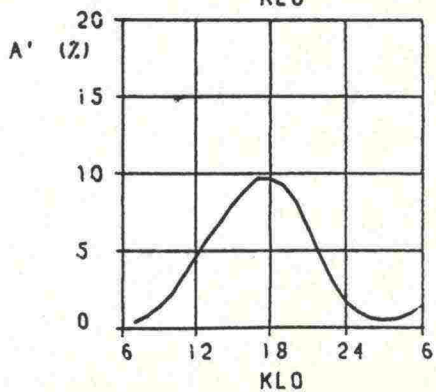
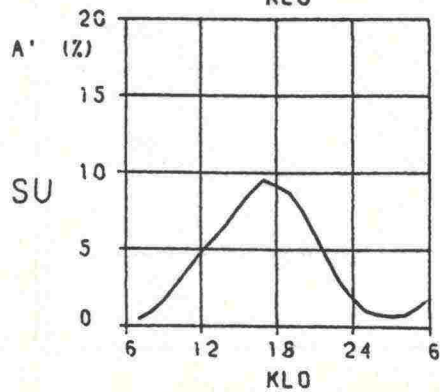
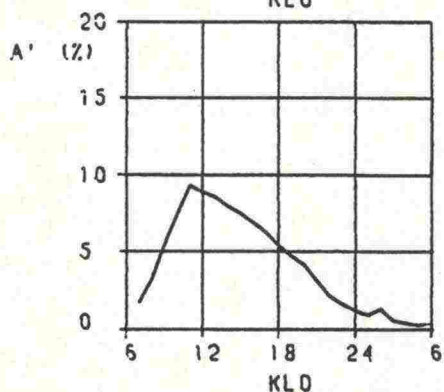
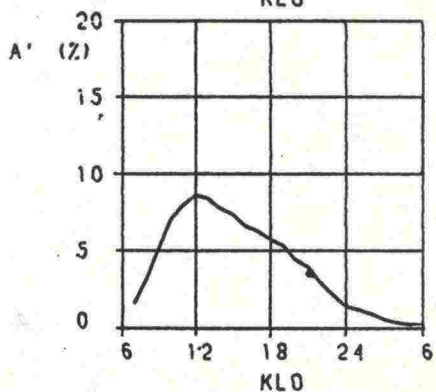
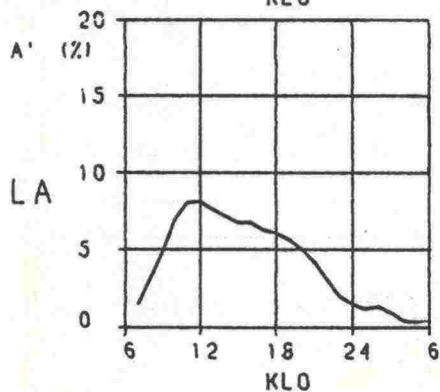
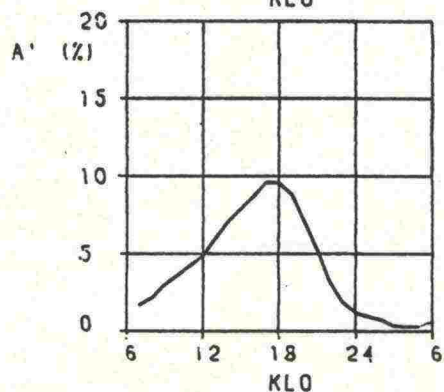
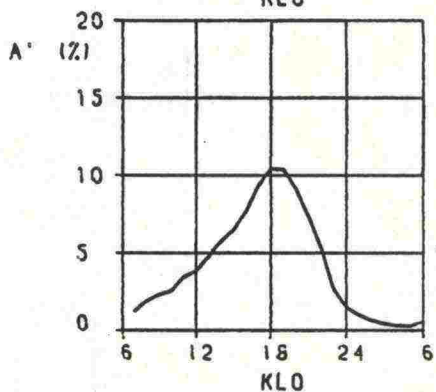
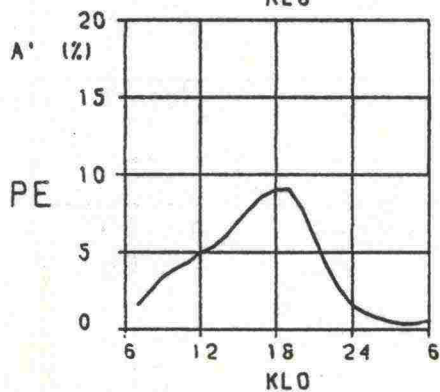
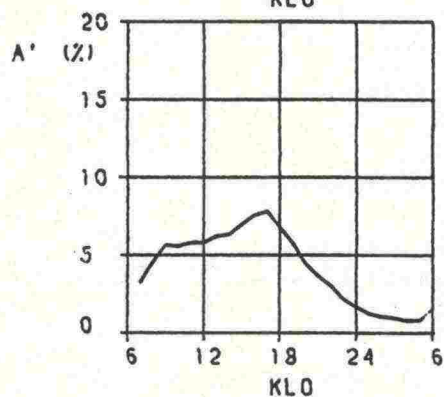
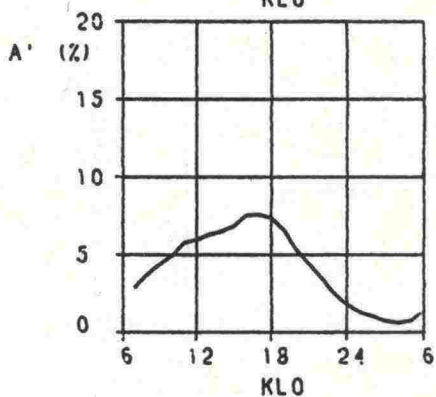
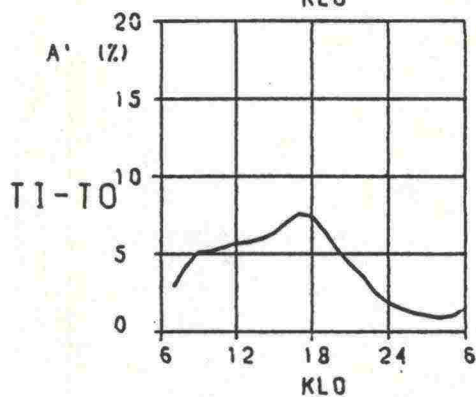
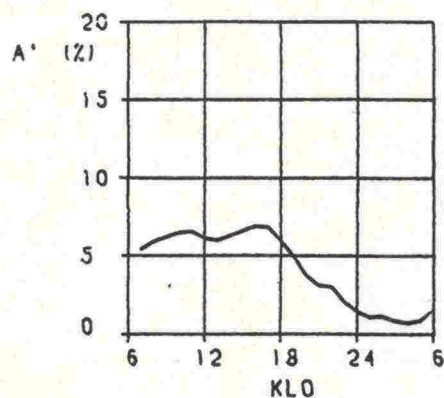
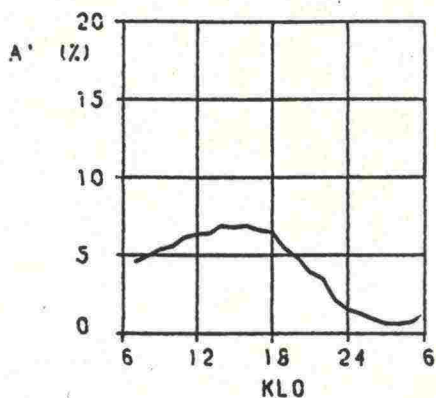
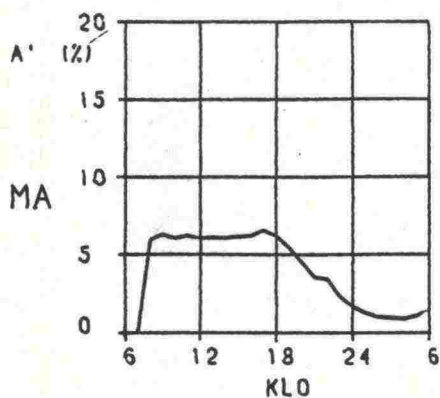




HELMIKUU

HEINAKUU

LOKAKUU



## 636KANGASNIEMI

1987

VT13

TIEOSA 139 ETAISYYS 2.7 KM

KVL 1122

B' (SU/KESA) 1.35

KAVL 949

KKVL 1576

D' 1.40

## ARKILIIKENTEEN KOOSTUMUS

HA 83%

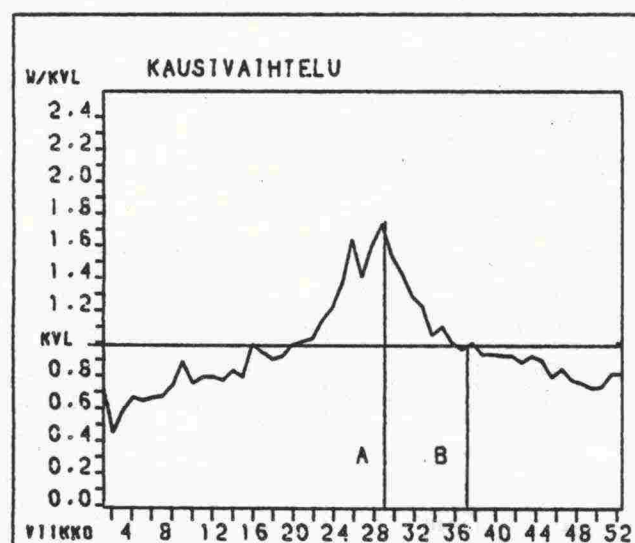
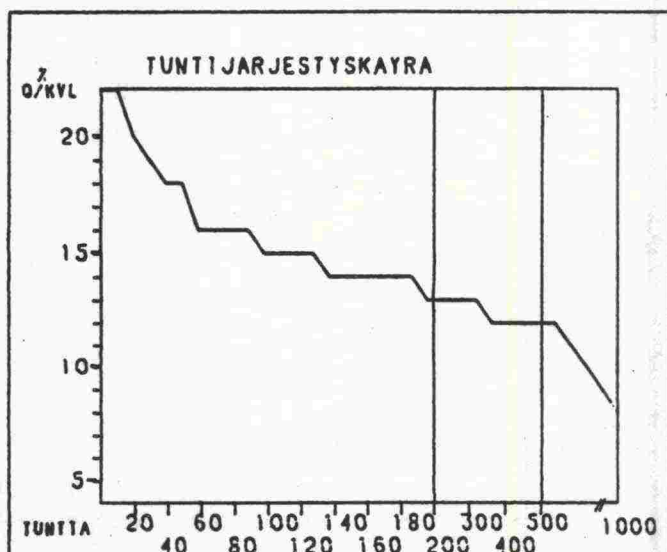
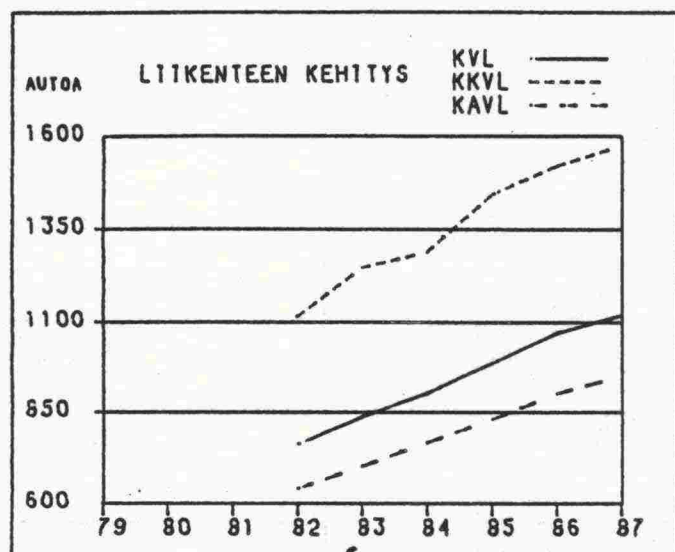
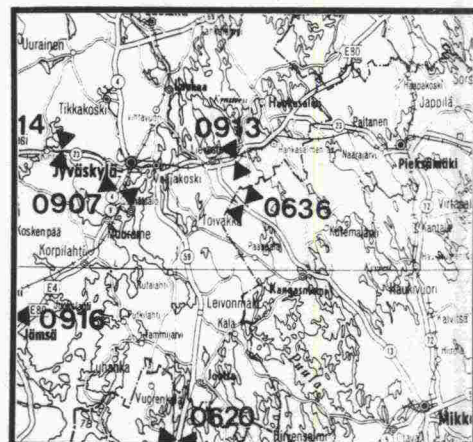
PA 5%

LA 2%

KAIP 3%

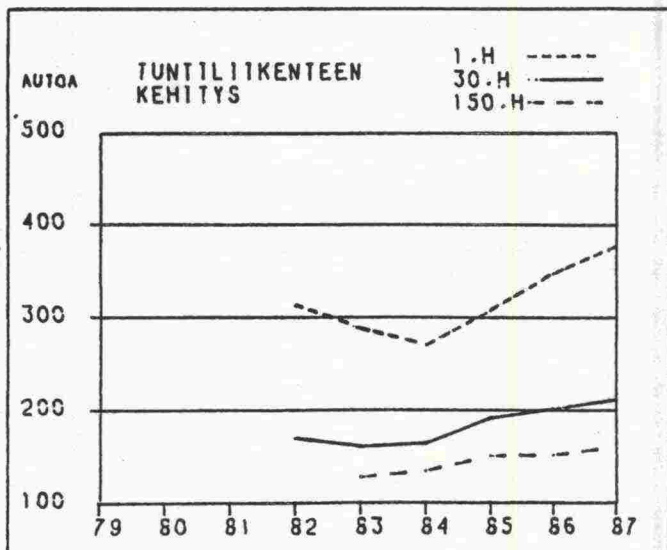
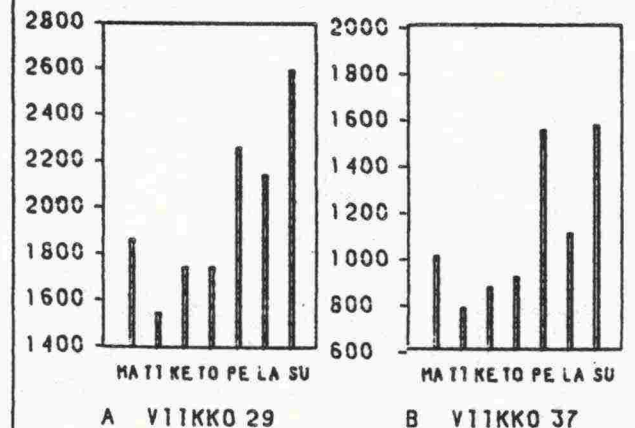
KAPP 1%

KATP 6%



H	Q	PE-SU (KERTYMA)	HTK
1	378	100	0.1
30	212	97	1.8
100	173	94	5.0
150	161	95	7.1
300	136	93	12.5
1000	93	78	31.2
5000	33	44	87.1

1-1 MONTAKO 2 KO-ENSIMMAISISTA TUNNEISTA OSUU PE-SU:lle



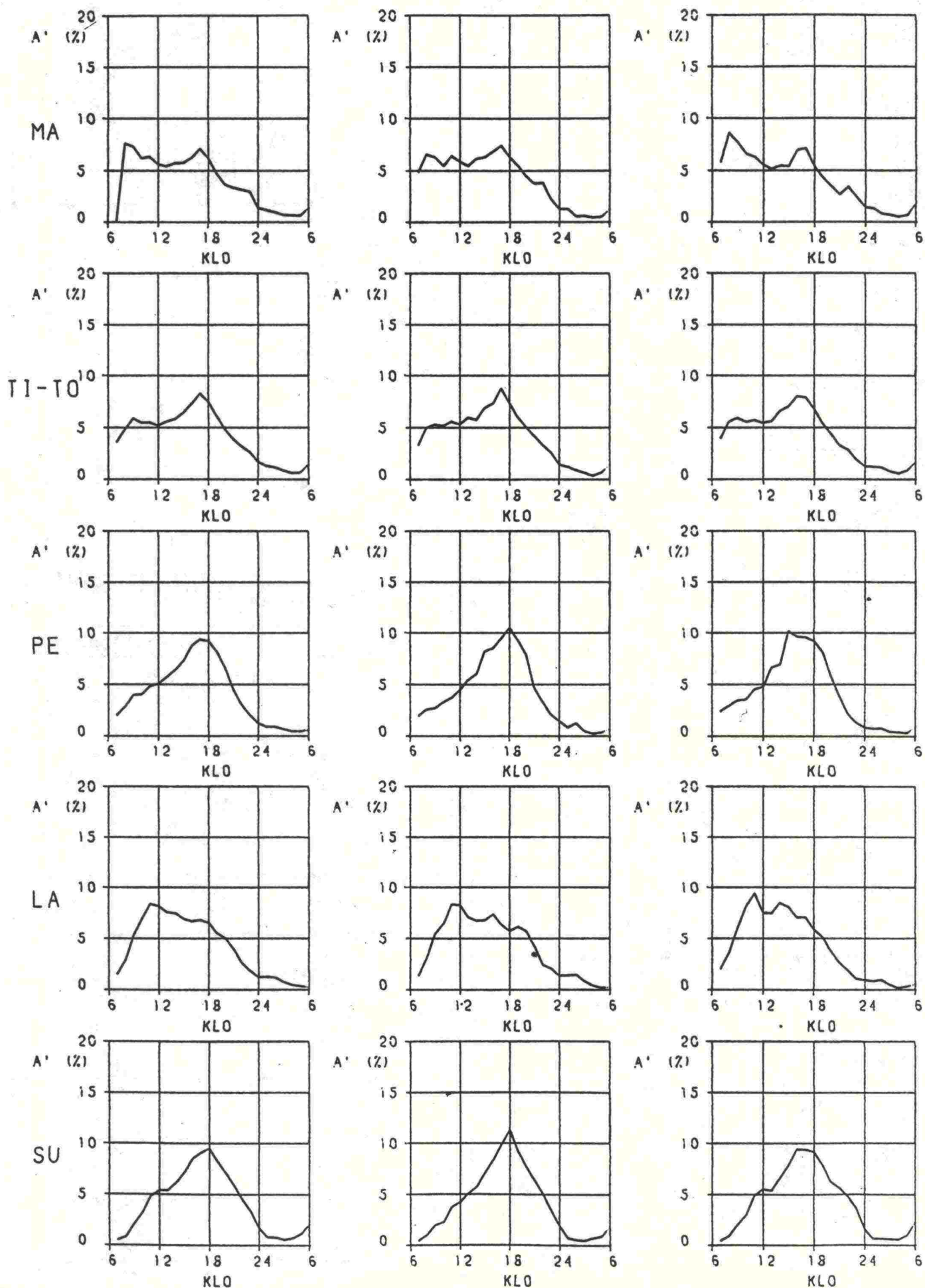


## TUNTIVAIHTELUT

HELMIKUU

HEINAKUU

LOKAKUU



639PUNKAHARJU

1987

VT14 TIEOSA 21 ETAISYYS 3.6 KM

KVL 2939

B' (SU/KESA) 1.00

KAVL 2868

KKVL 4738

D' 1.61

## ARKILIIKENTEN KOOSTUMUS

HA 87 %

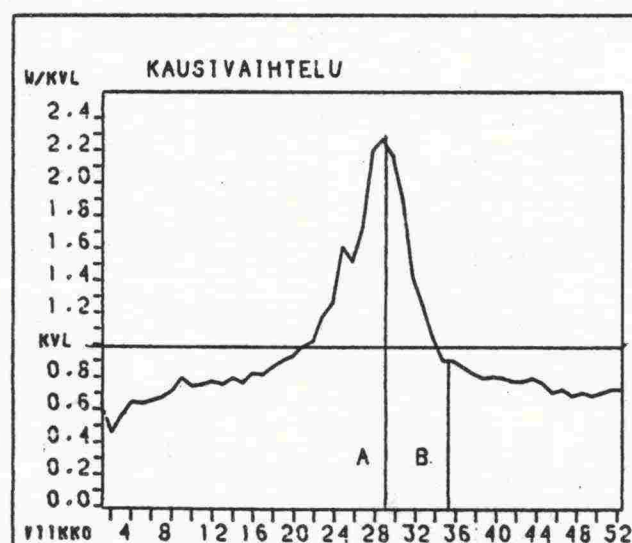
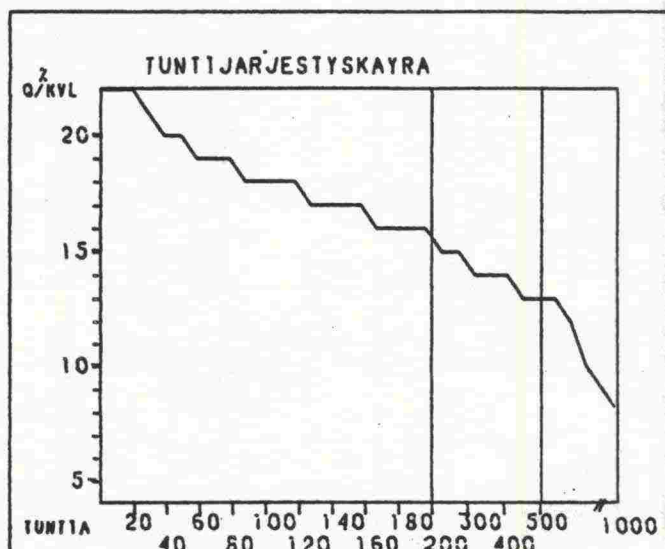
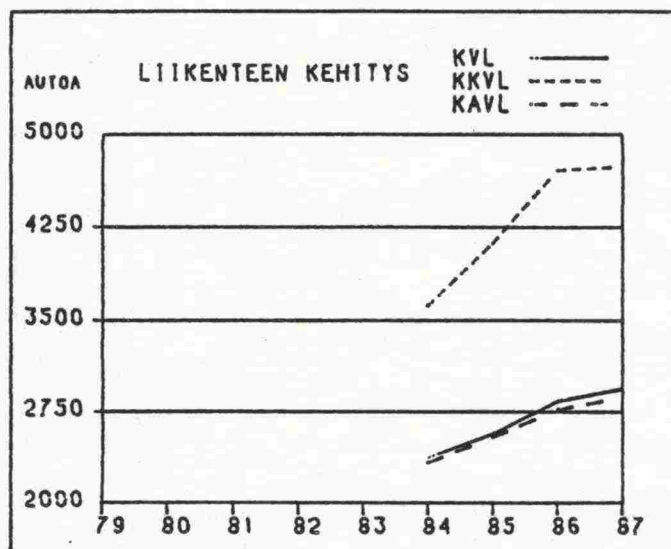
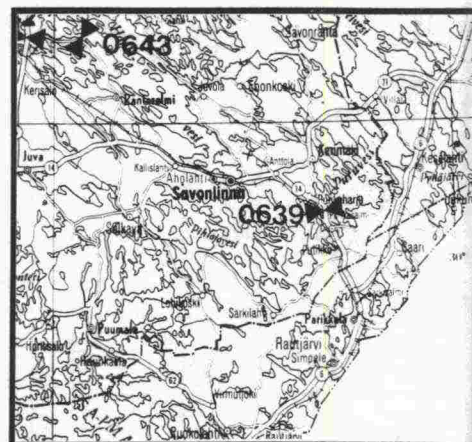
PA 5 %

LA 1 %

KAIP 4 %

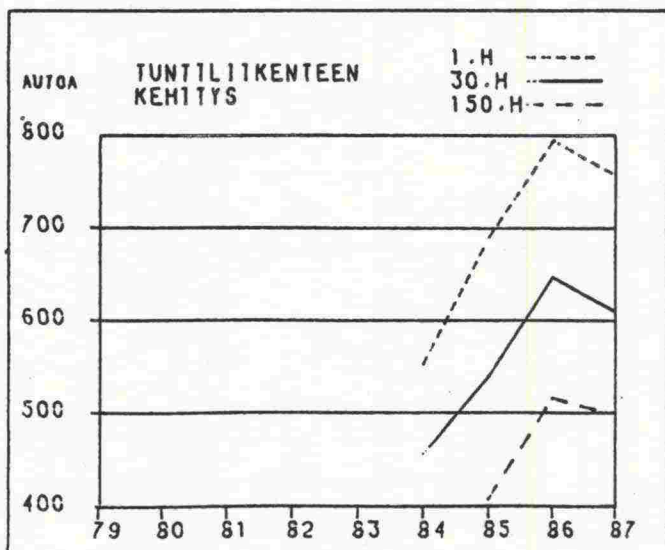
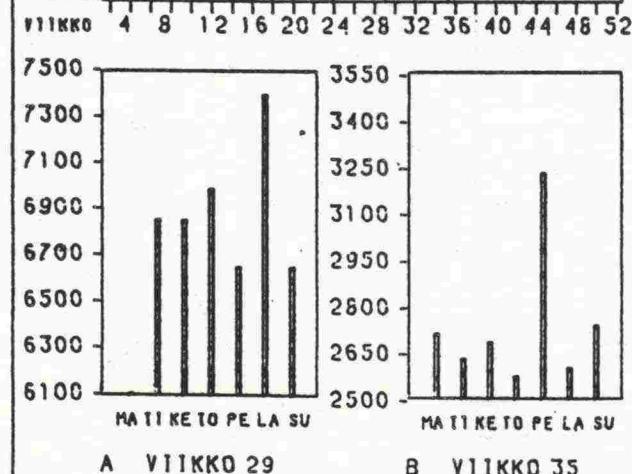
KAPP - %

KATP 3 %



H	Q	PE-SU (•)	KERTYMA	HTK
1	757	100	0.1	0.87
30	610	50	1.8	0.87
100	533	51	5.3	0.91
150	498	53	7.9	0.92
300	399	52	14.2	0.93
1000	230	52	33.1	0.88
5000	90	41	89.2	-

(•) MONTAKO % KO-ENSIMMAISISTA TUNNEISTA OSUU PE-SU-LLE



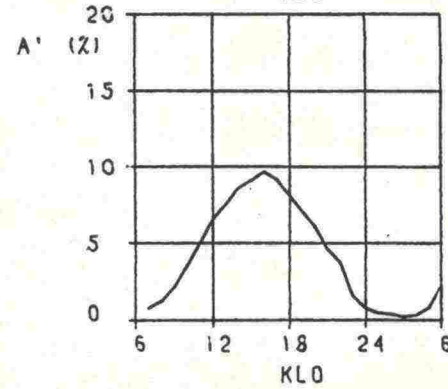
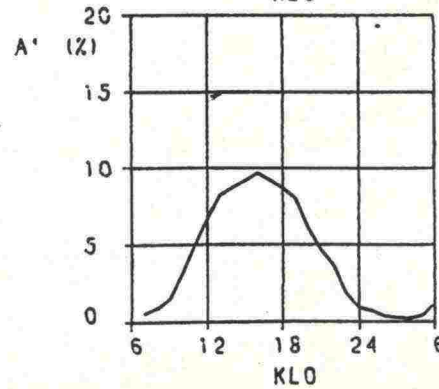
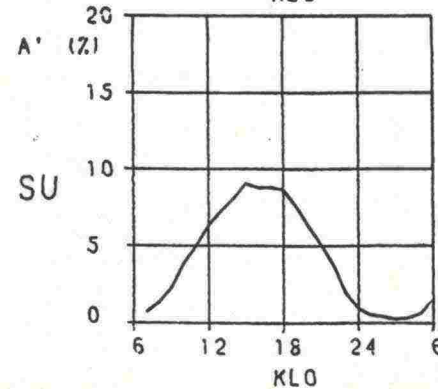
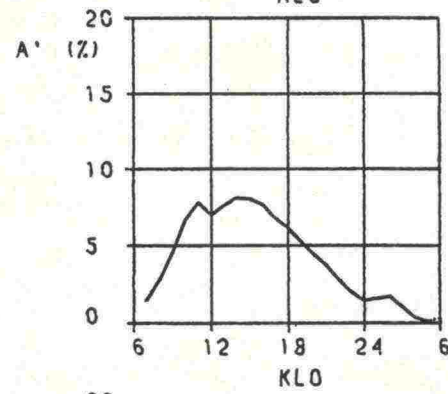
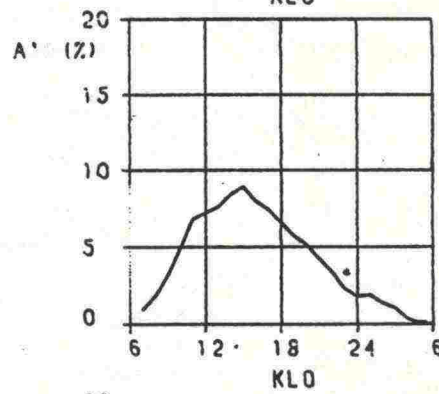
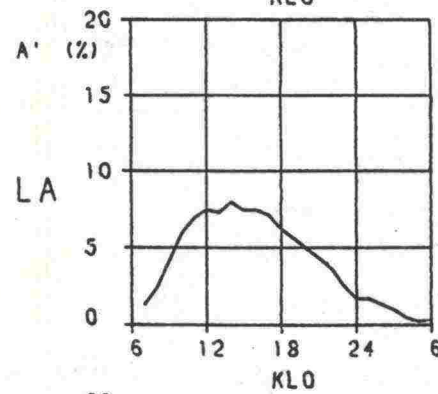
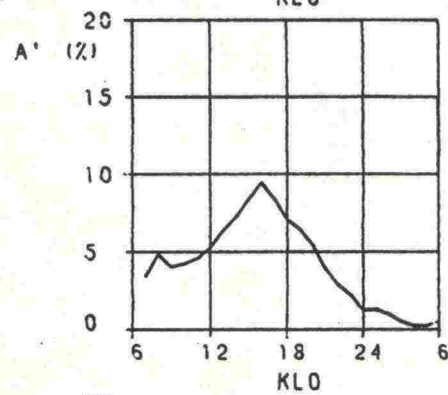
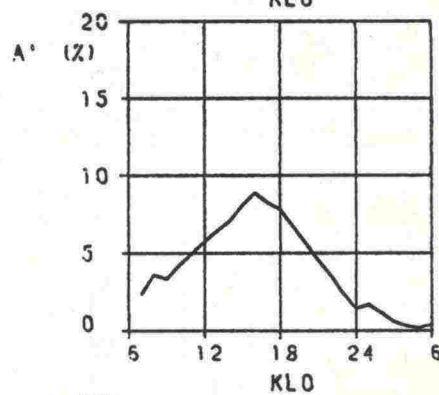
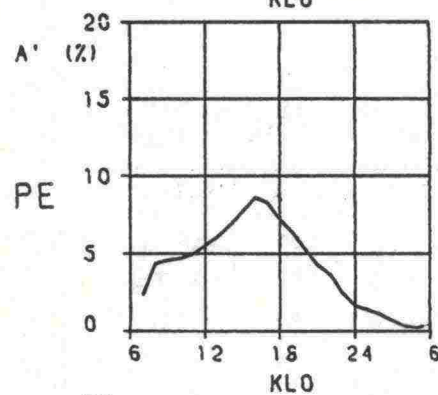
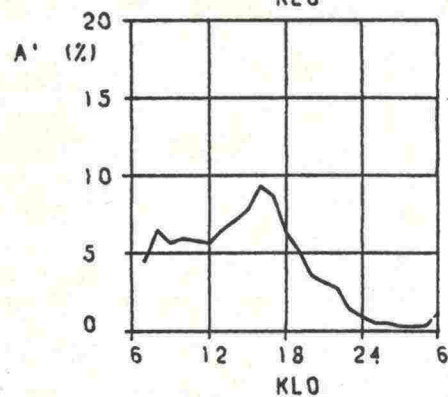
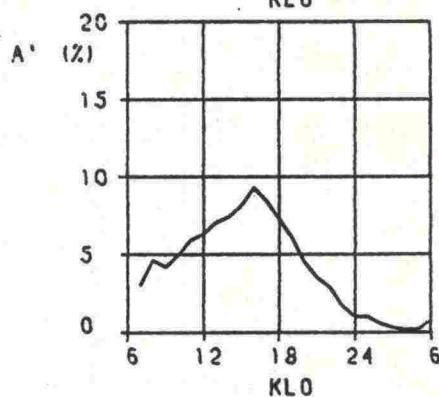
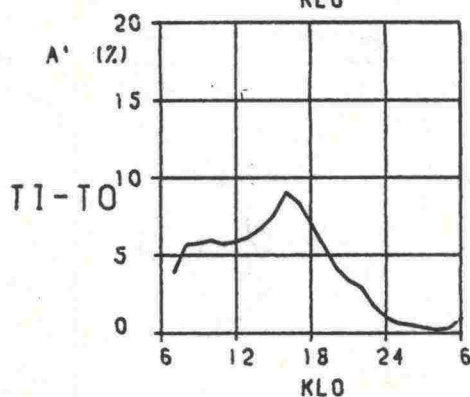
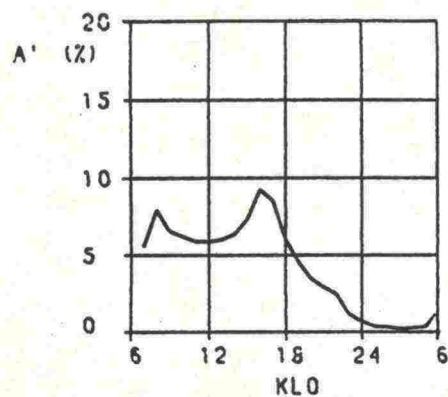
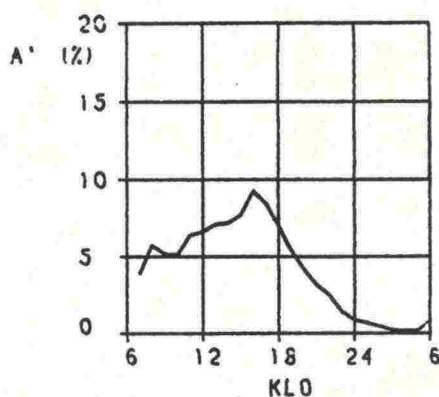
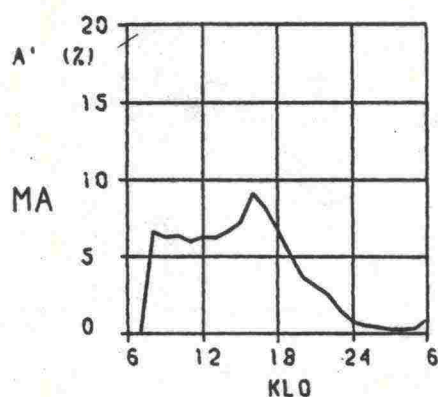


## TUNTIVAIHTELUT

HELMIKUU

HEINAKUU

LOKAKUU



642 JOROINEN

1987

VT5

TIEOSA 144 ETAISYYS 3.8 KM

KVL 4885

B' (SU/KESA) 1.10

KAVL 4564

KKVL 6235

D' 1.27

## ARKILIIKENTEEN KOOSTUMUS

HA 83 %

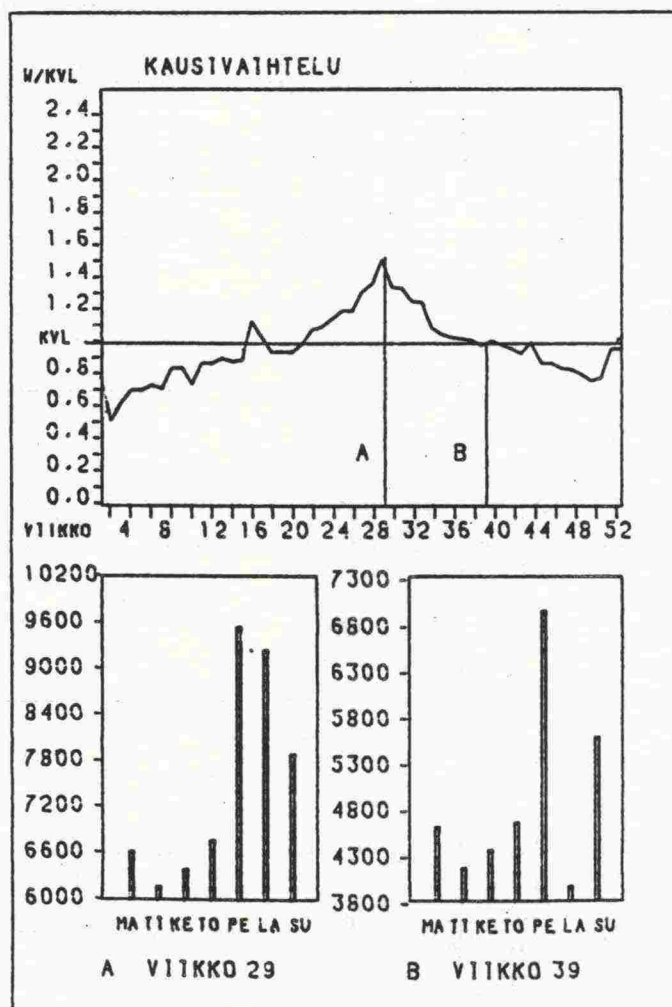
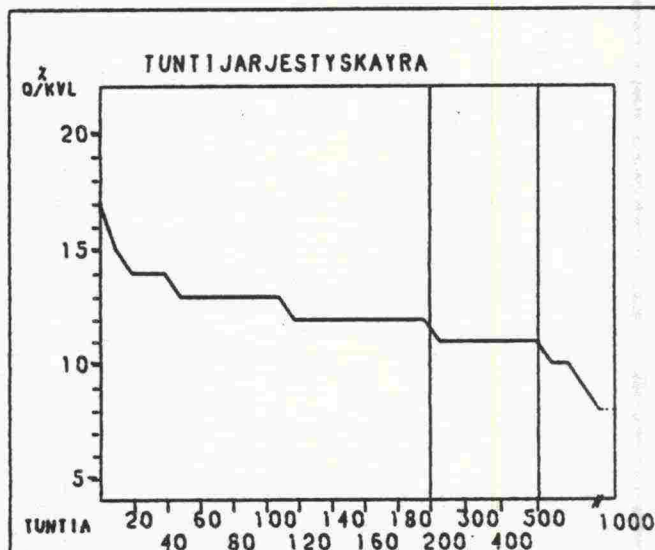
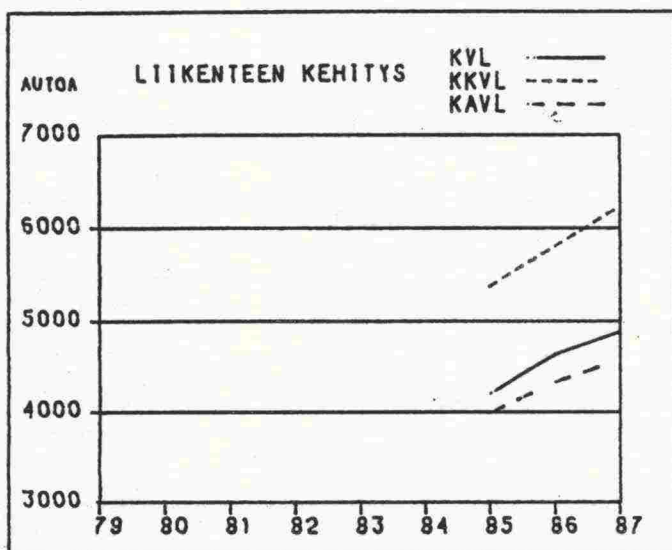
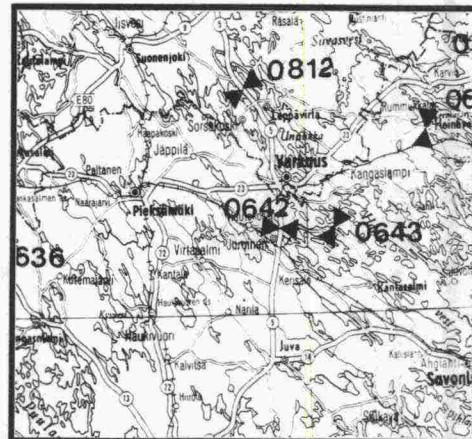
PA 4 %

LA 2 %

KAIP 4 %

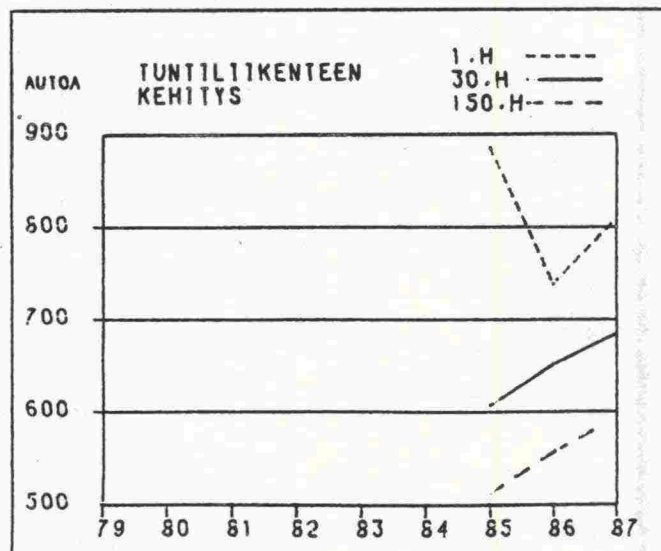
KAPP 1 %

KATP 6 %



H	Q	PE-SU (•) KERTYMA	HTK
1	810	100	0.1
30	685	87	1.2
100	620	93	3.6
150	594	93	5.5
300	534	88	10.2
1000	383	68	27.6
5000	163	42	85.7

(•) MONTAKO X KO-ENSIMMAISISTA TUNNEISTA OSUU PE-SU:ALLE



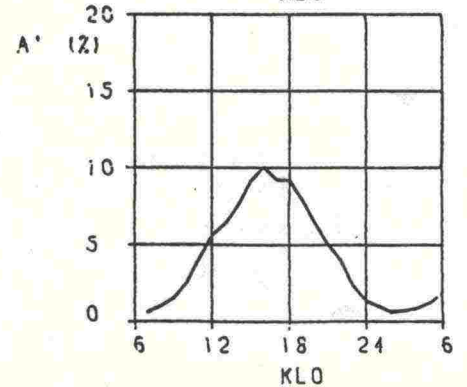
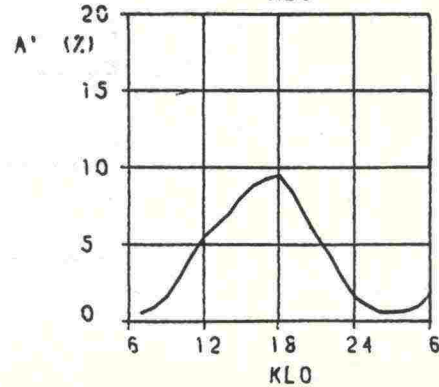
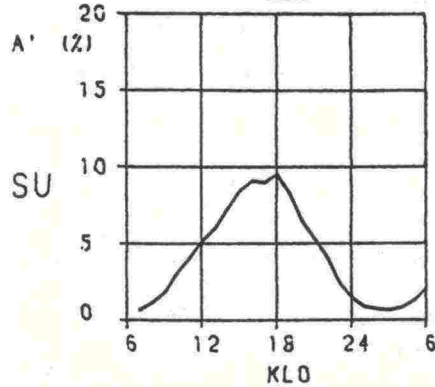
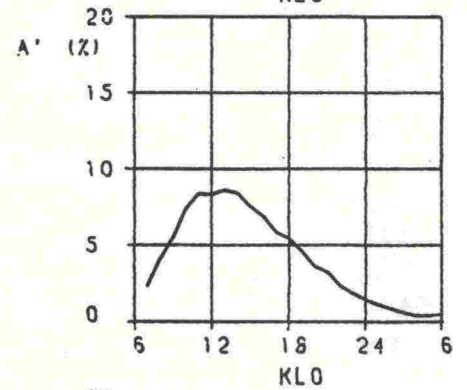
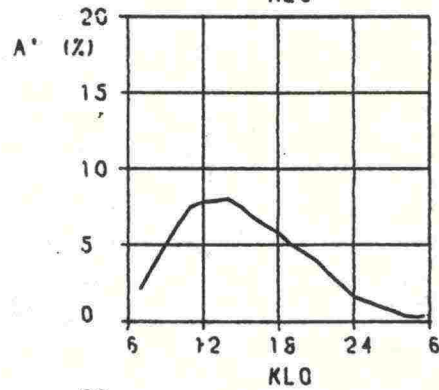
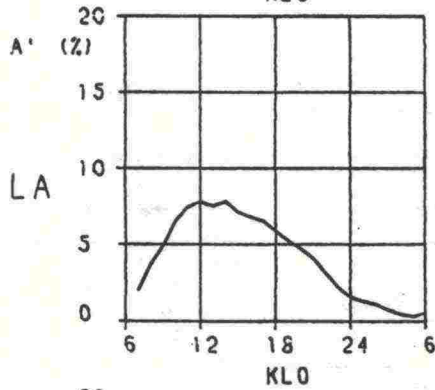
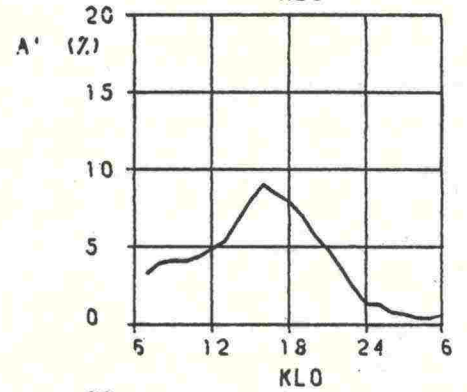
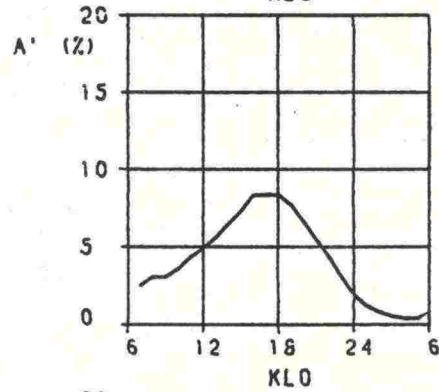
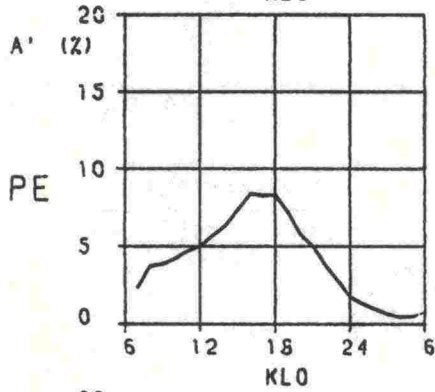
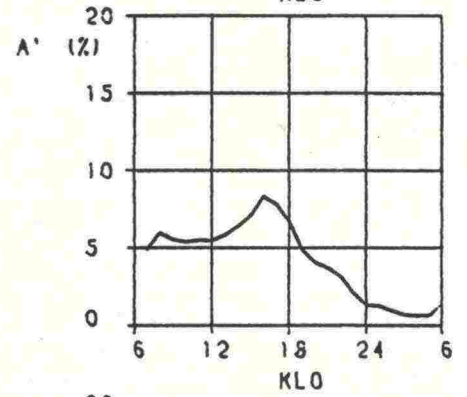
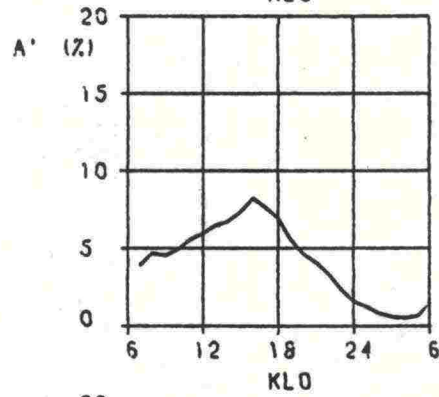
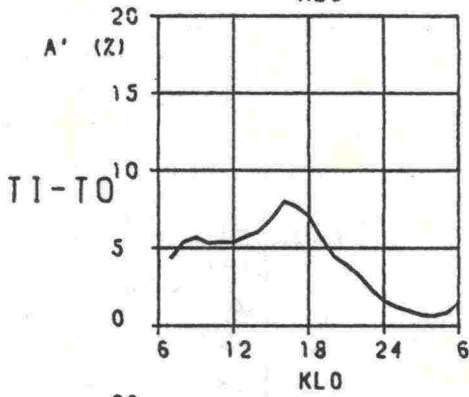
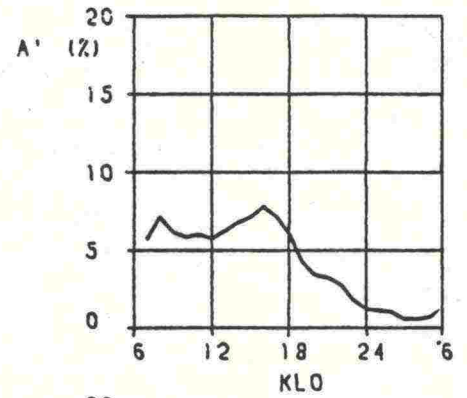
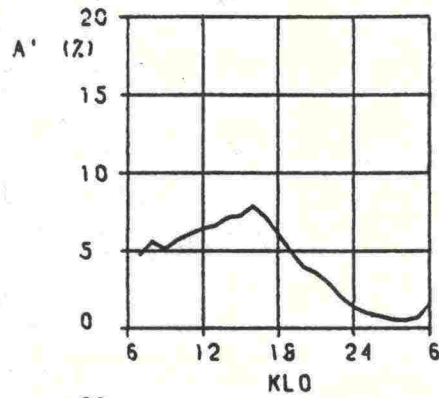
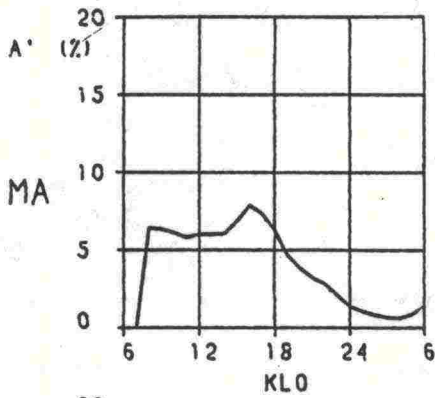


## TUNTIVAIHTELUT

HELMIKUU

HEINAKUU

LOKAKUU



## 643RANTASALMI

1987

MT464 TIEOSA 4 ETAISYYS 1.7 KM

KVL 796 B' (SU/KESA) 1.20

KAVL 718

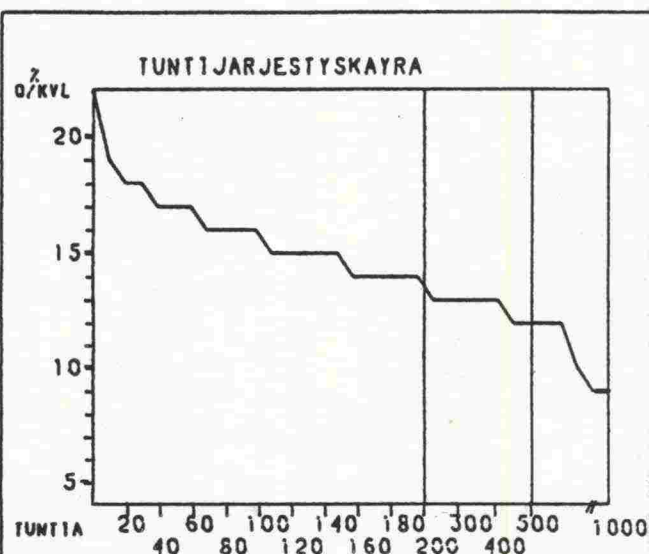
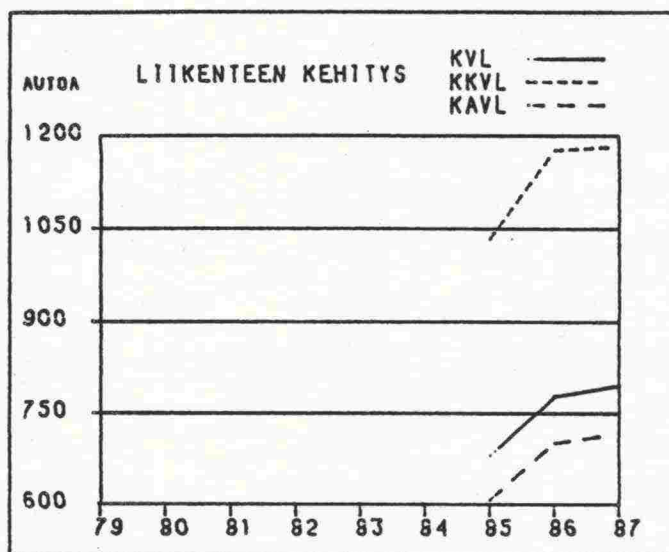
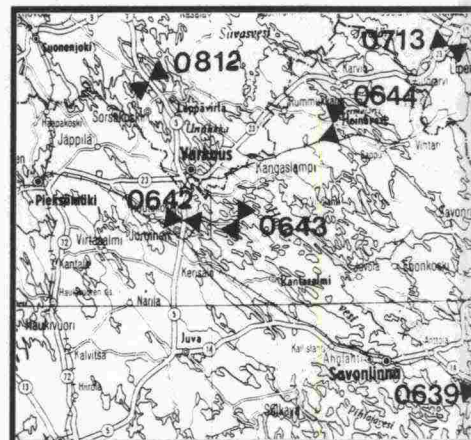
KKVL 1183 D' 1.48

## ARKILIIKENTEN KOOSTUMUS

HA 86 % PA 4 %

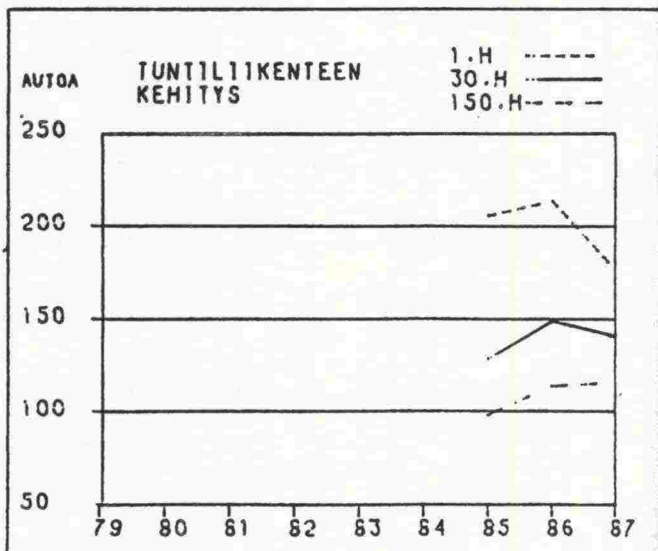
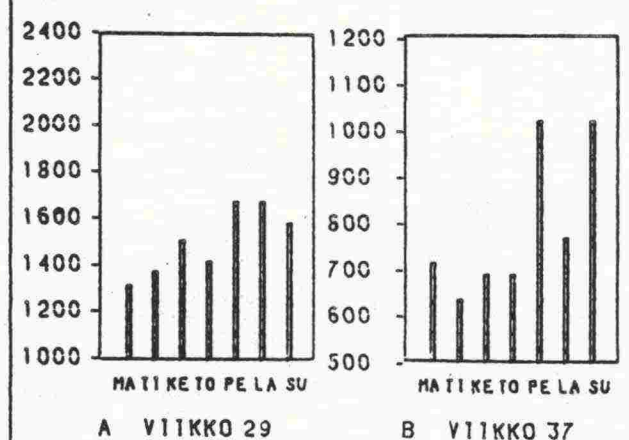
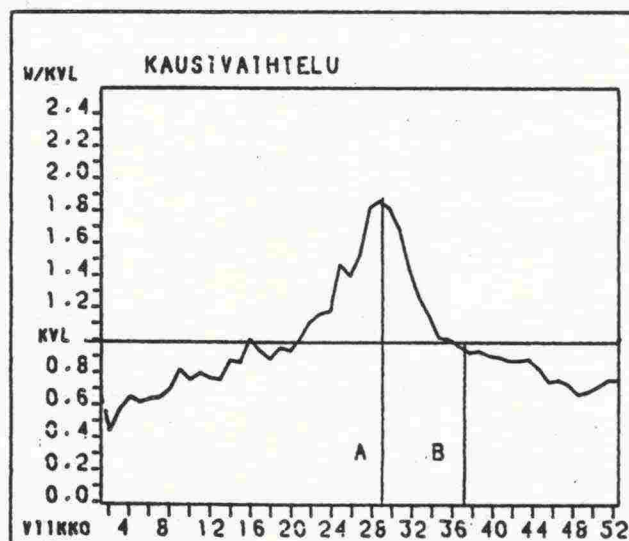
LA 2 % KAIP 3 %

KAPP 1 % KATP 4 %



H	Q	PE-SU (KERTYMA)	HTK
1	177	100	0.1
30	141	97	1.6
100	124	86	4.8
150	116	82	6.8
300	100	71	12.3
1000	68	64	32.0
5000	23	44	89.5

(\*) MONTAKO 2 KO. ENSIMMAISISTA TUNNEISTA OSUU PE-SU:LE

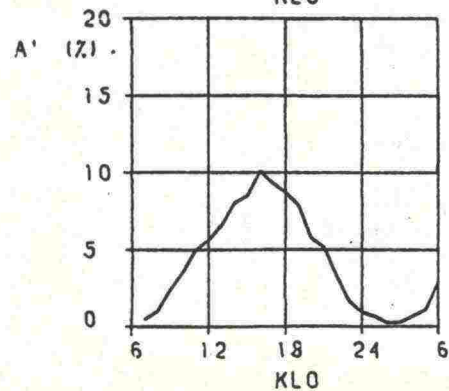
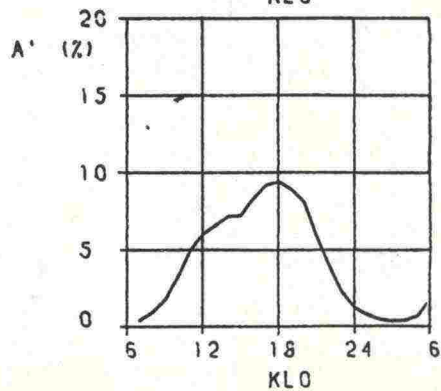
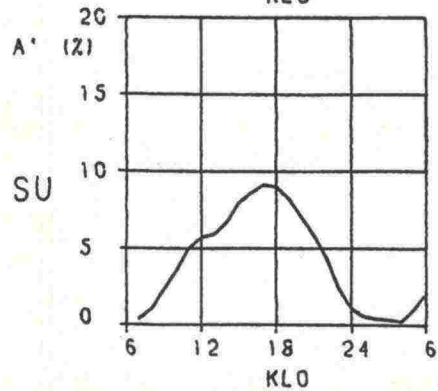
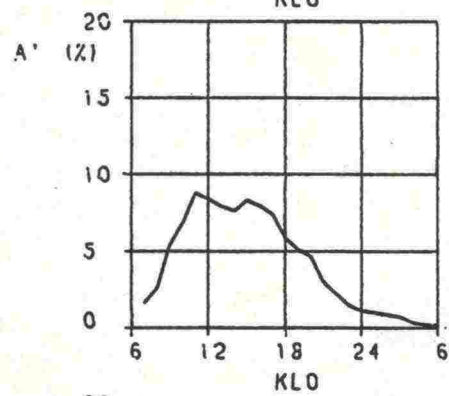
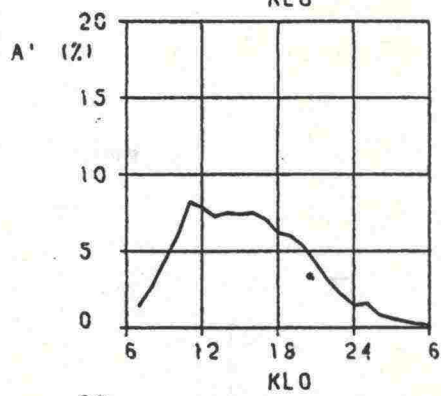
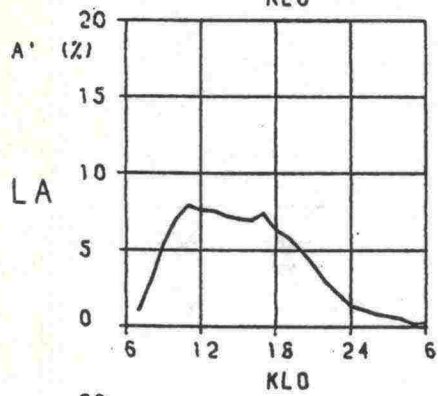
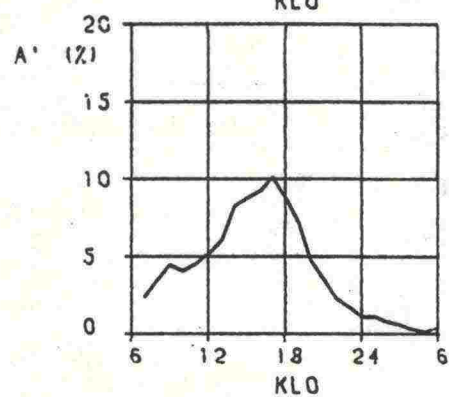
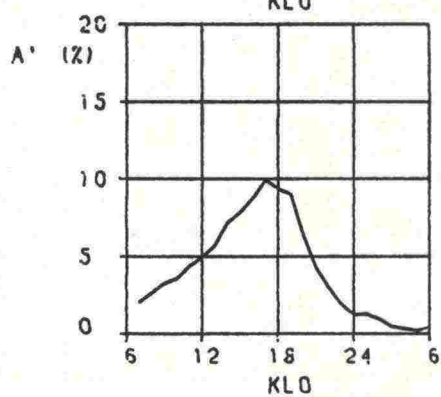
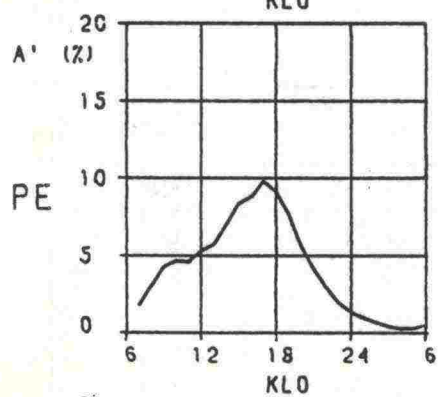
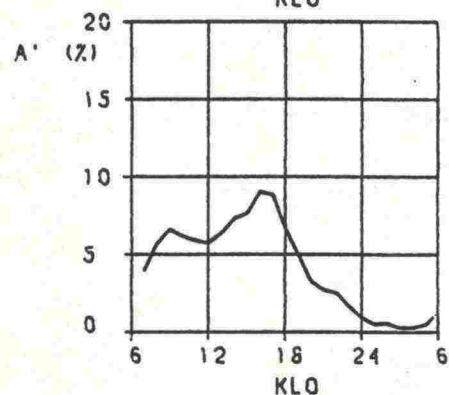
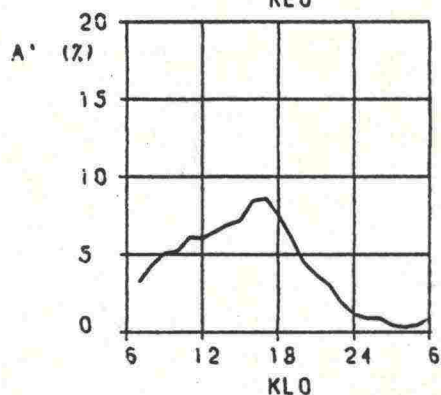
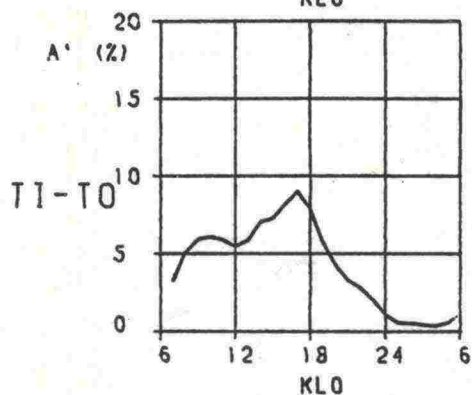
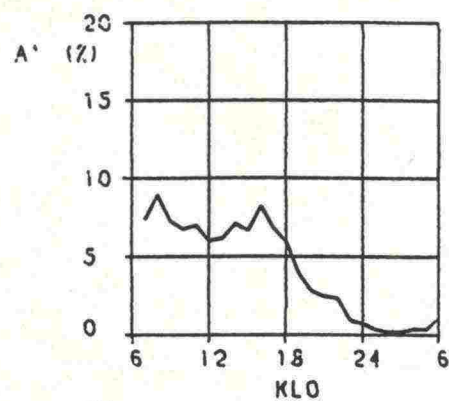
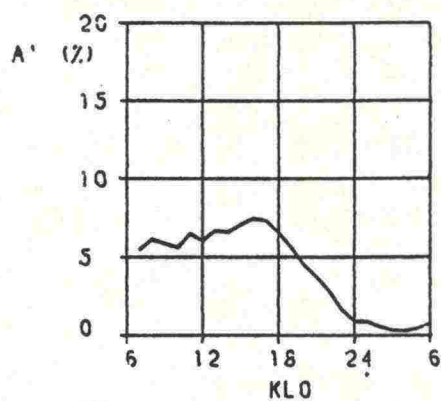
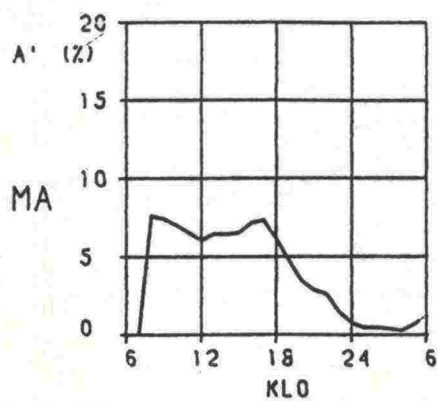




HELMIKUU

HEINAKUU

LOKAKUU



644HEINÄVESI

MT476 TIEOSA 8 ETAISYYS 0.8 KM

1987

KVL 725

B' (SU/KESA) 0.96

KAVL 707

KKVL 1007

D' 1.38

## ARKILIIKENTEEN KOOSTUMUS

HA 86 %

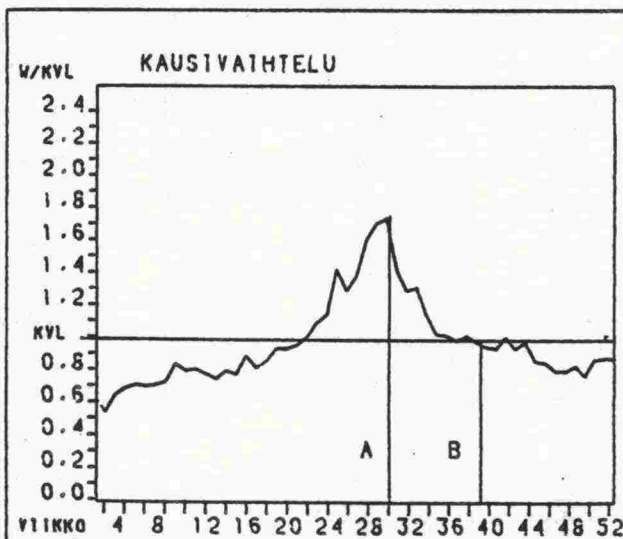
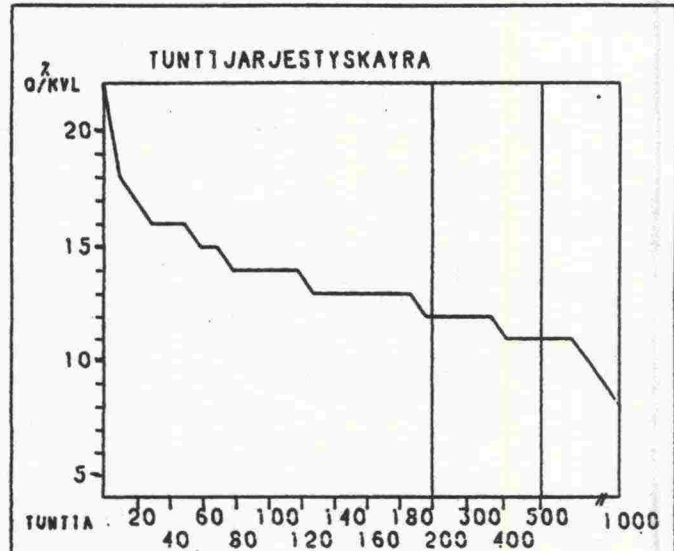
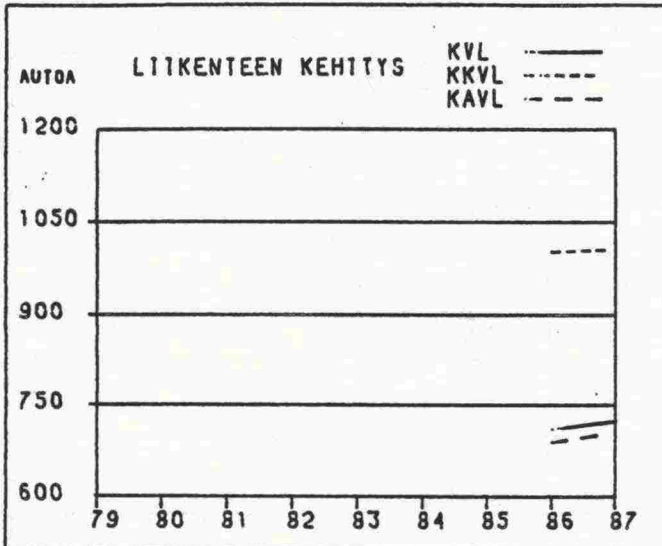
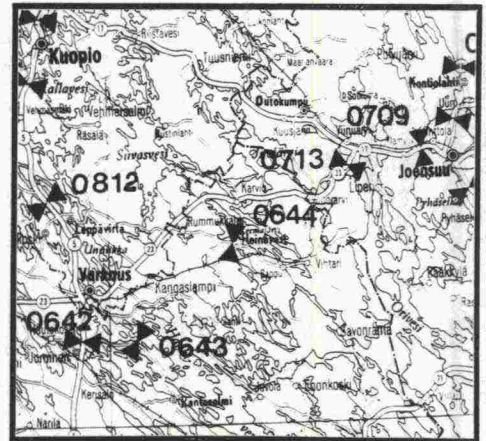
PA 7 %

LA 3 %

KAIP 3 %

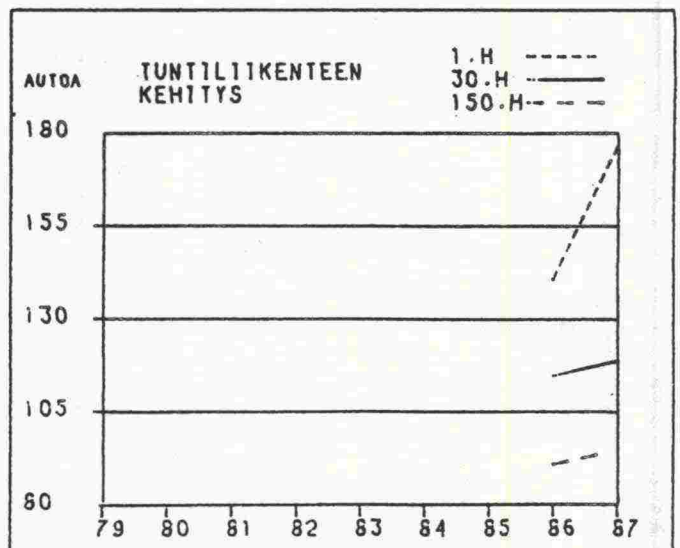
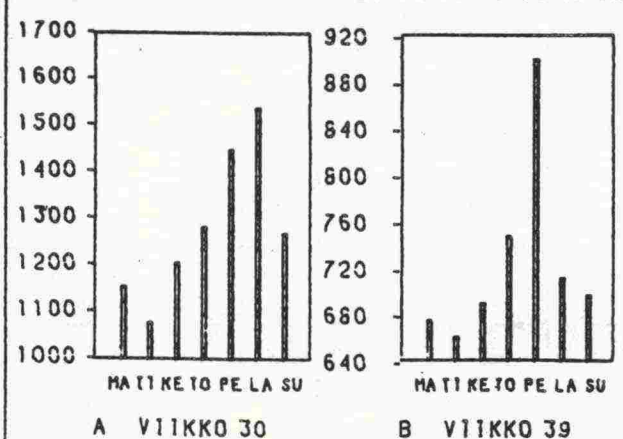
KAPP - %

KATP 1 %



H	Q	PE-SU (*)	KERTYMA	HTK
1	177	100	0.1	-
30	119	73	1.5	0.90
100	101	61	4.4	0.79
150	95	59	6.2	-
300	83	57	11.3	0.69
1000	60	53	29.6	0.71
5000	22	42	90.7	0.69

(\*) MONTAKO % KO. ENSIMMAISISTA TUNNEISTA OSUU PE-SU: LLE



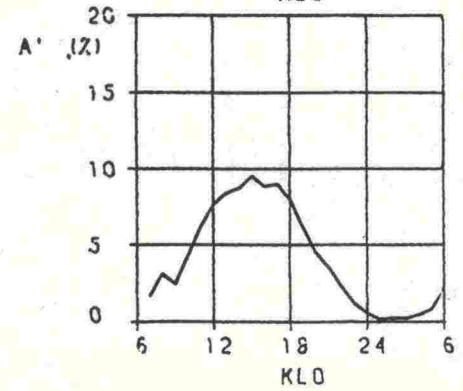
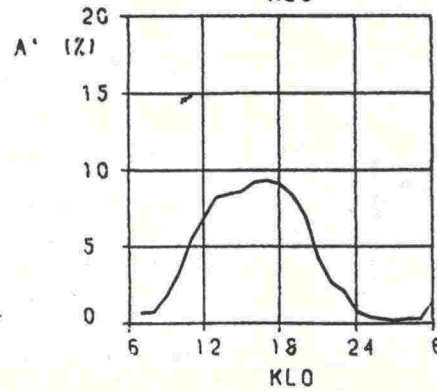
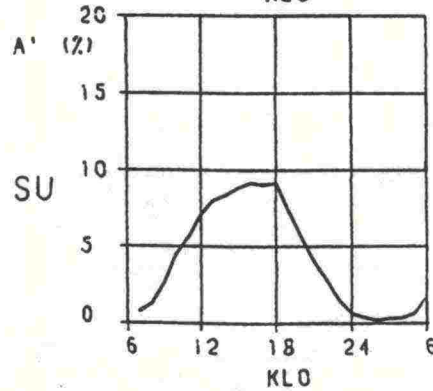
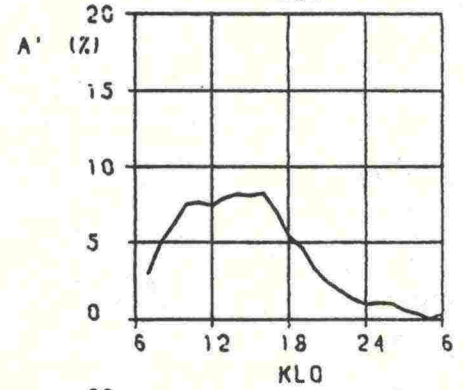
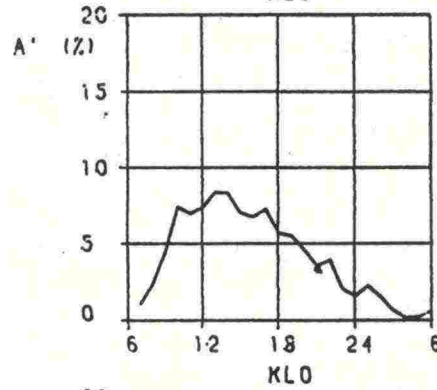
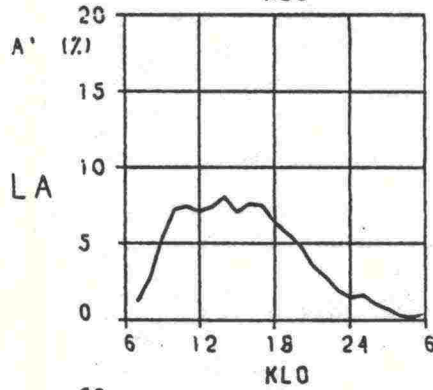
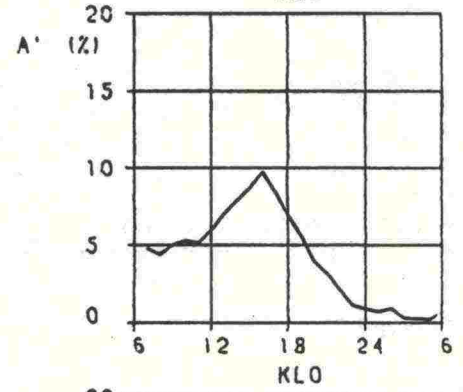
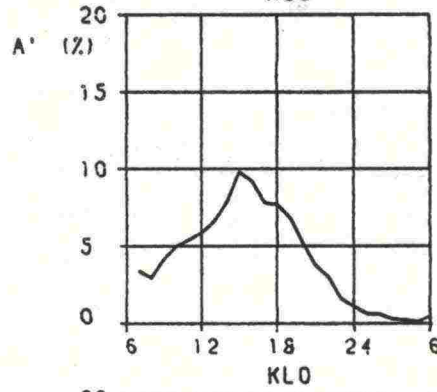
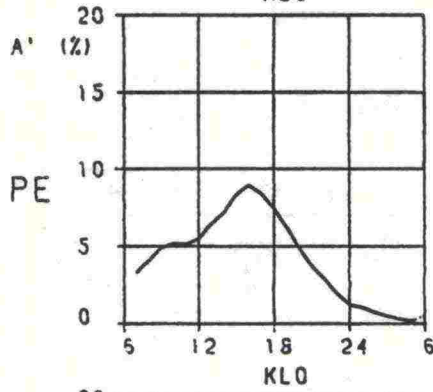
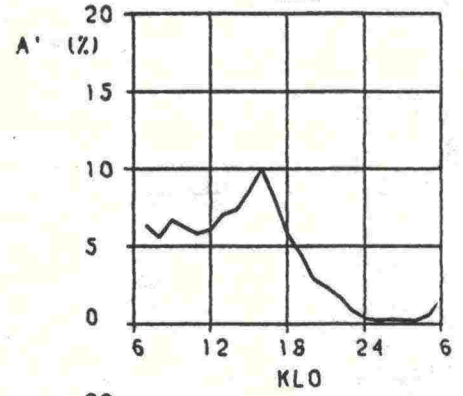
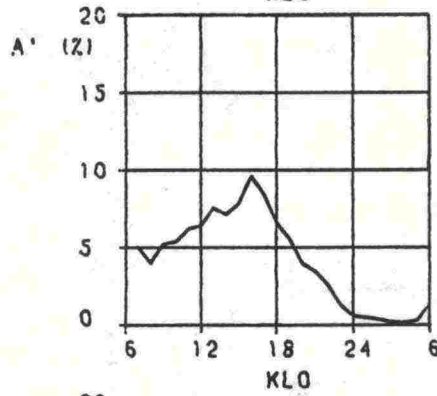
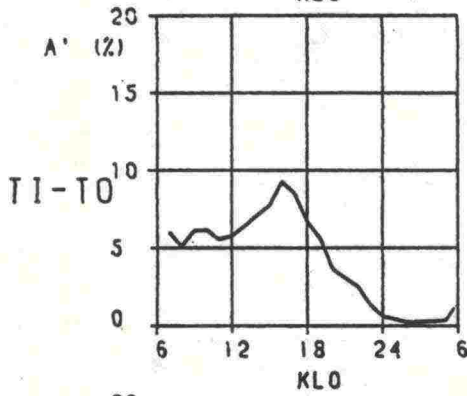
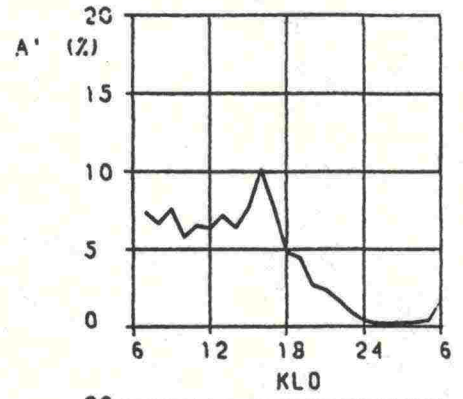
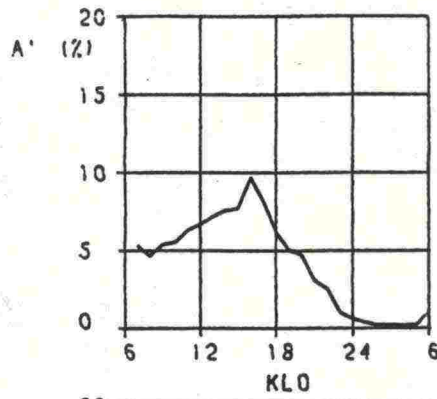
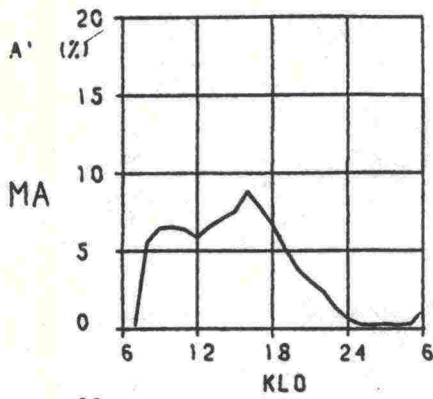


## TUNTIVAIHTELUT

HELMIKUU

HEINAKUU

LOKAKUU



707PYHÄSELKÄ

1987

VT6

TIEOSA 348 ETAISYYS 2.0KM

KVL 6251

B' (SU/KESA) 0.96

KAVL 6260

KKVL 7448

D' 1.19

## ARKILIIKENTEEN KOOSTUMUS

HA 85 %

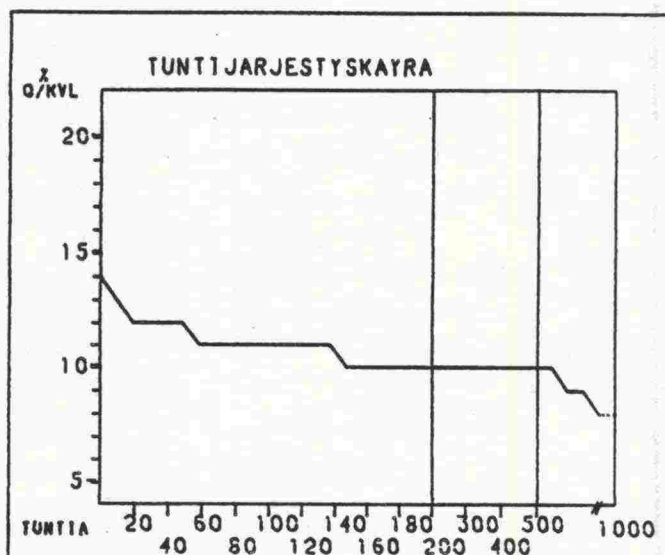
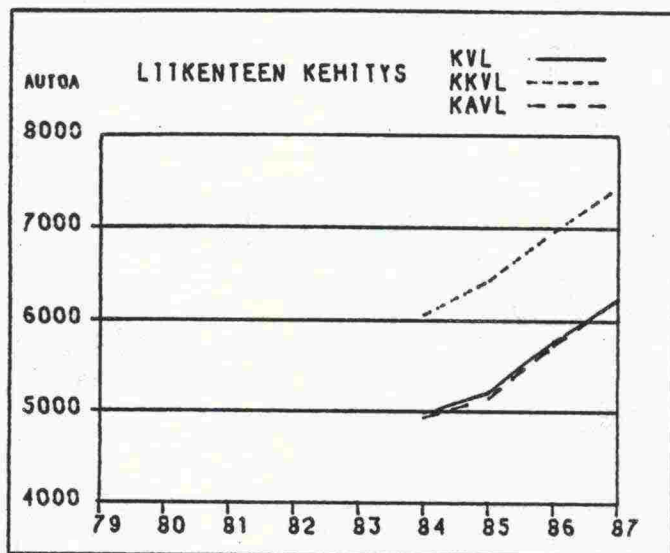
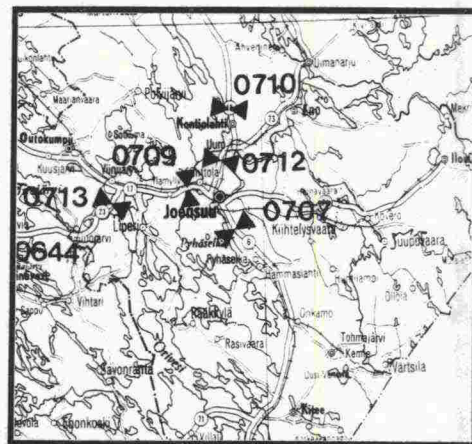
PA 7 %

LA 2 %

KAIP 4 %

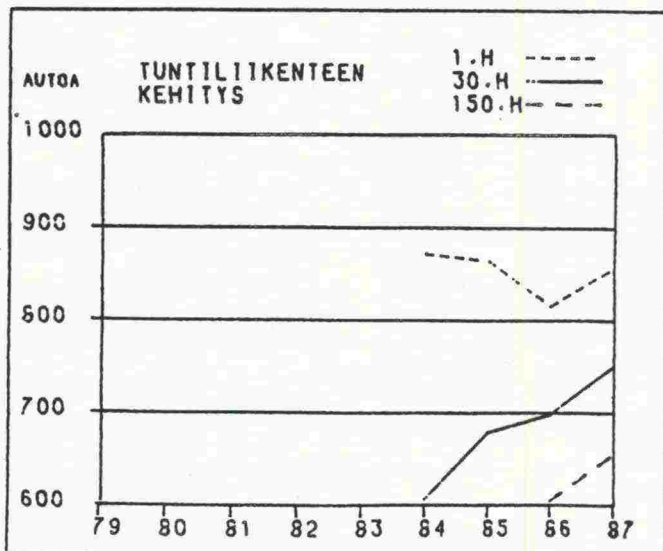
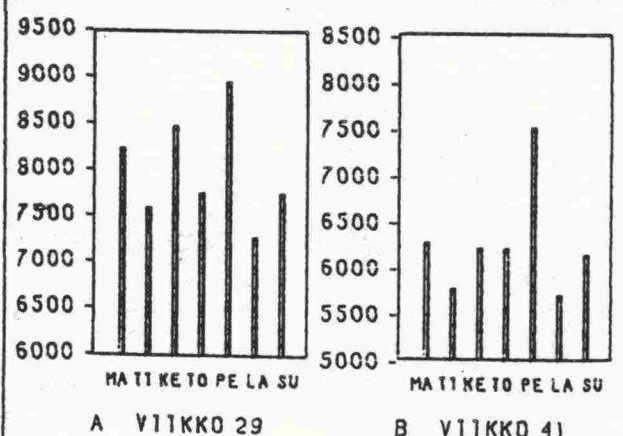
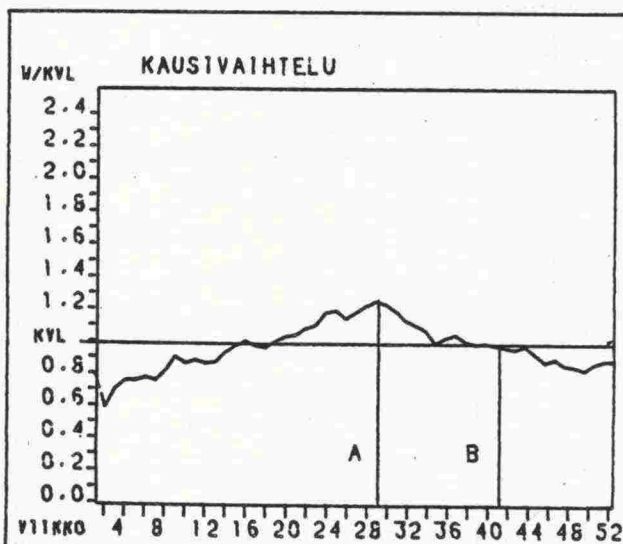
KAPP - %

KATP 2 %



H	Q	PE-SU (+KERTYMA)	HTK
1	856	100	0.1
30	751	87	1.0
100	675	73	3.2
150	636	61	4.7
300	608	51	8.8
1000	491	48	25.5
5000	222	40	86.0

(\*) MONTAKO % KO-ENSIMMAISISTA TUNNEISTA OSUU PE-SU:LLE



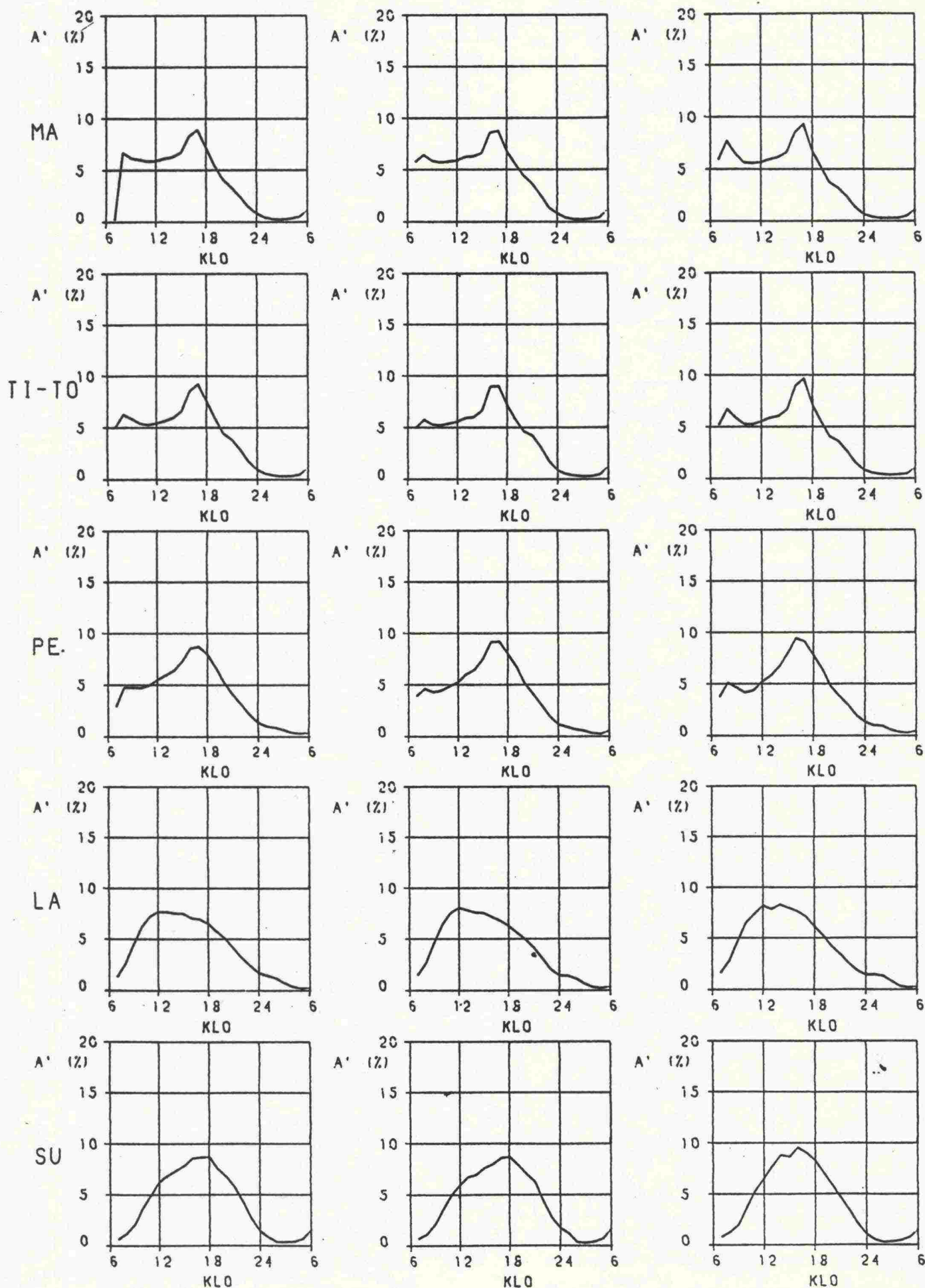


## TUNTIVAIHTELUT

HELMIKUU

HEINAKUU

LOKAKUU



709JOENSUU/LENTOAS. T1987

VT17 TIEOSA 26 ETAISYYS 1.6 KM

KVL 9831 B' (SU/KESA) 0.96

KAVL 9841

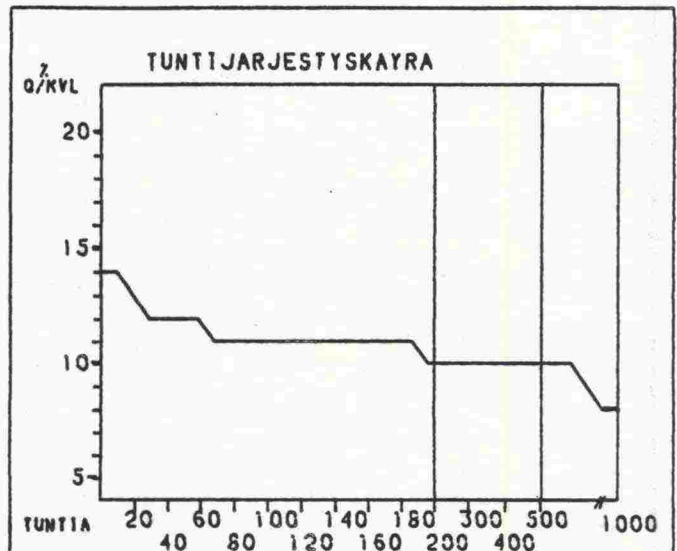
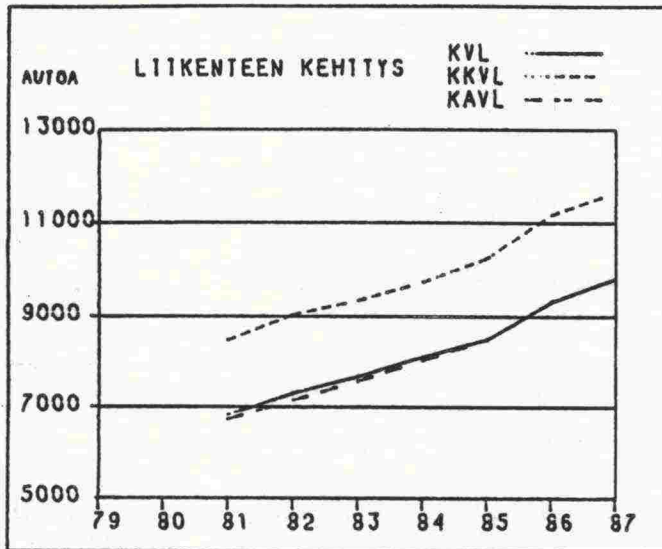
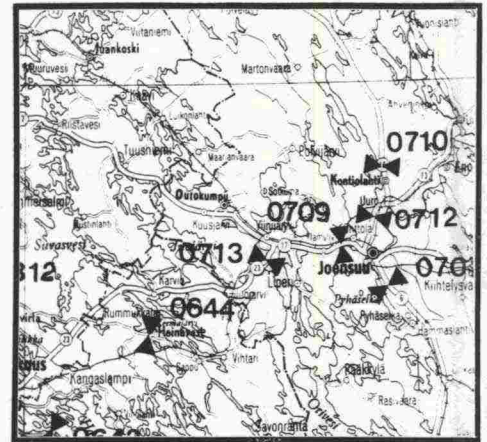
KKVL 11671 D' 1.18

## ARKILIIKENTEEN KOOSTUMUS

HA 84 % PA 7 %

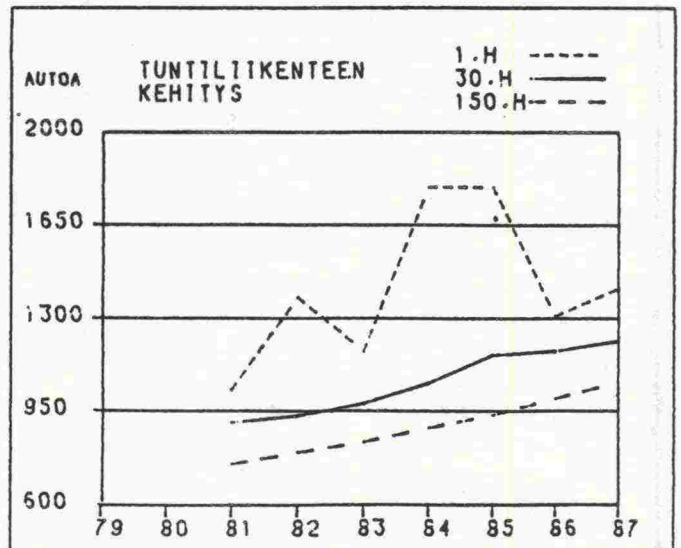
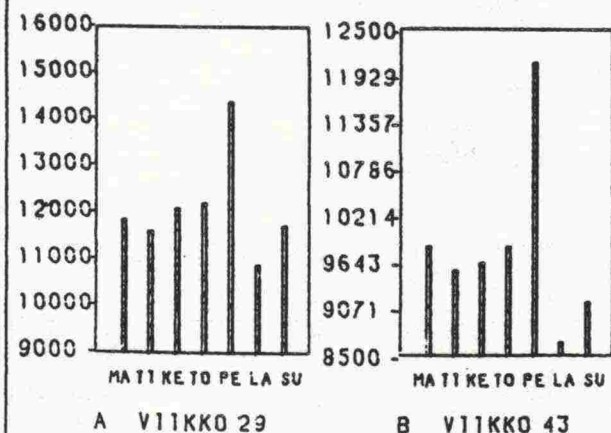
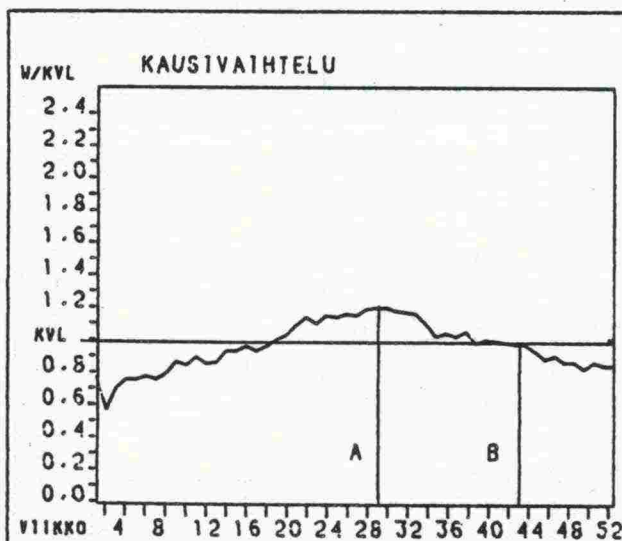
LA 2 % KAIP 4 %

KAPP - % KATP 3 %



H	Q	PE-SU (•KERTYMA)	HTK
1	1413	100	0.1
30	1217	90	1.1
100	1099	66	3.3
150	1060	55	4.8
300	977	49	9.1
1000	766	46	25.7
5000	350	40	86.0

(•) MONTAKO Z KO-ENSIMMAISISTA TUNNEISTA OSUU PE-SU:LLE



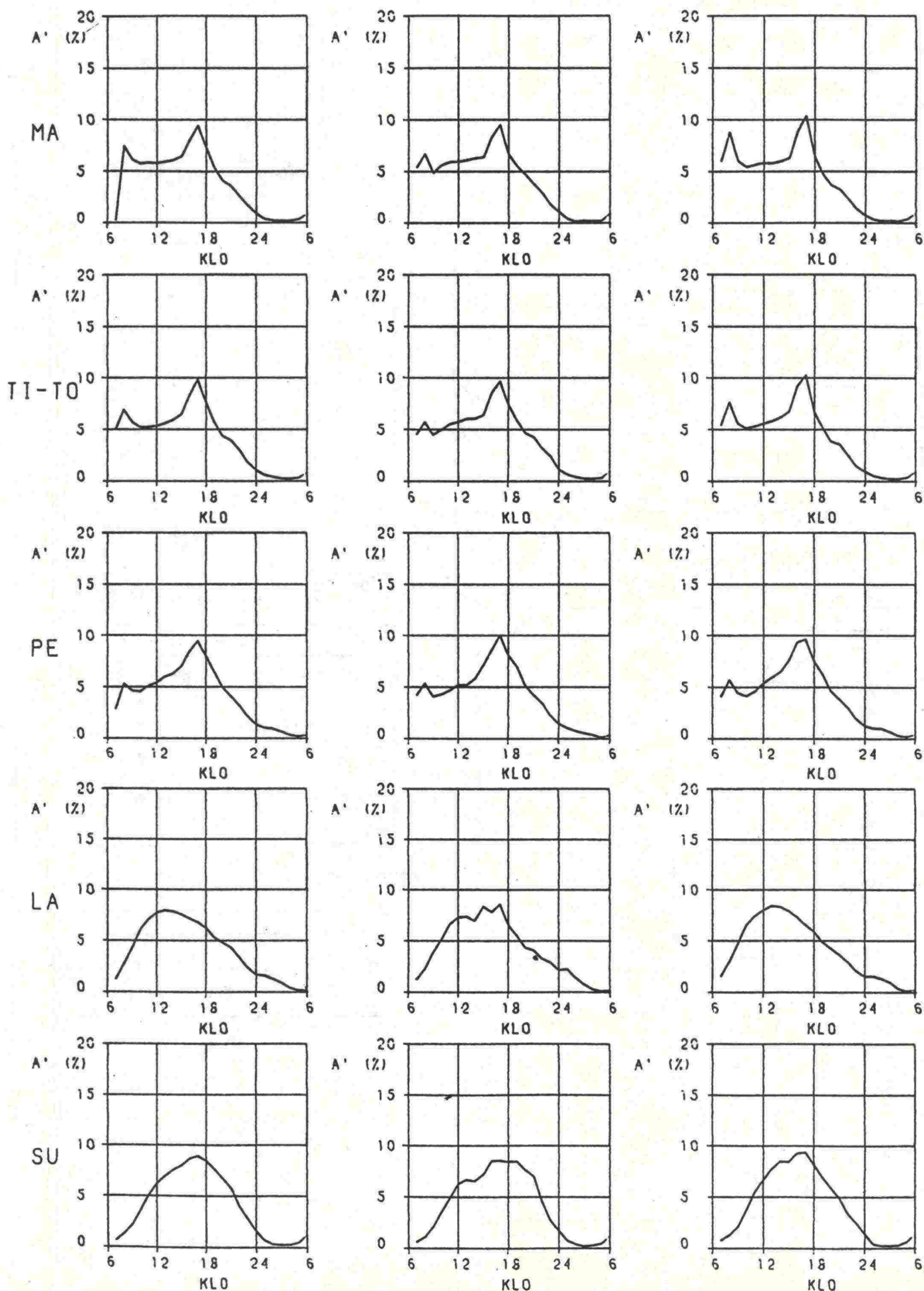


## TUNTIVAIHTELUT

HELMIKUU

HEINAKUU

LOKAKUU



## 710KONTIOLAHTI

VT18 TIEOSA 8 ETAISYYS 0.5 KM

1987

KVL 1342

B' (SU/KESA) 1.14

KAVL 1221

KKVL 1781

D' 1.32

## ARKILIIKENTEEN KOOSTUMUS

HA 86 %

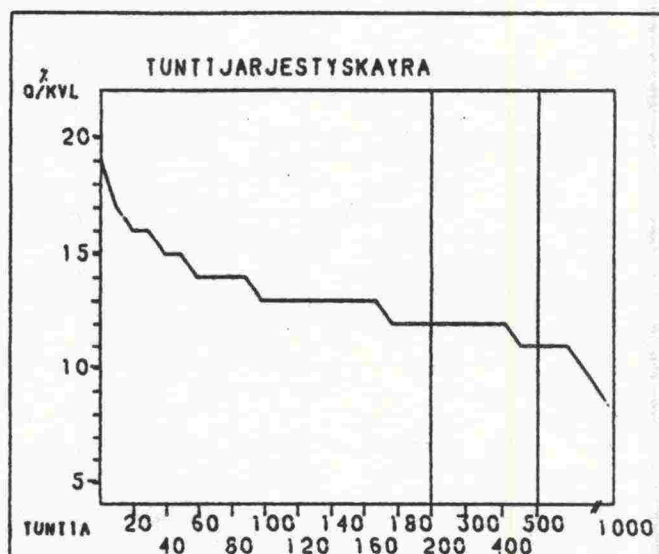
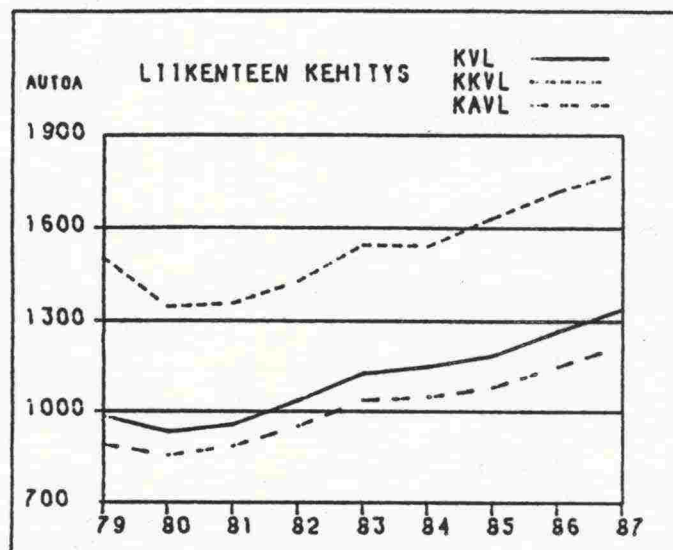
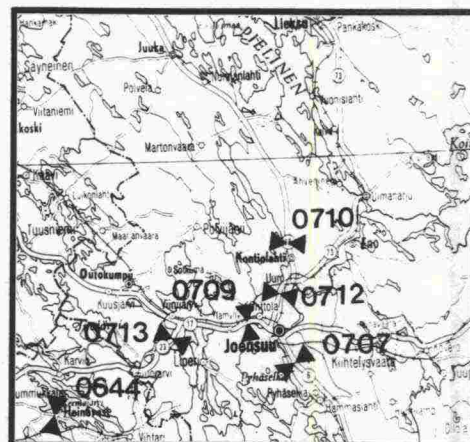
PA 5 %

LA 1 %

KAIP 5 %

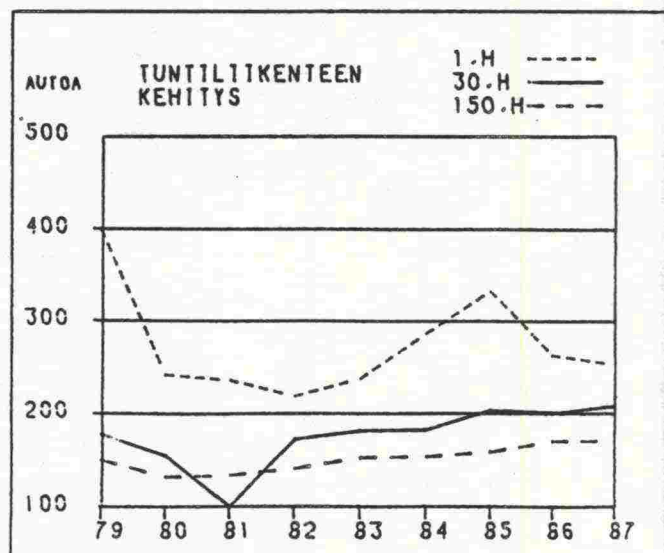
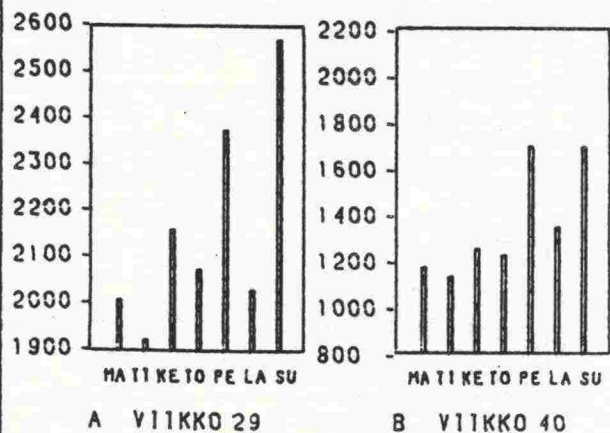
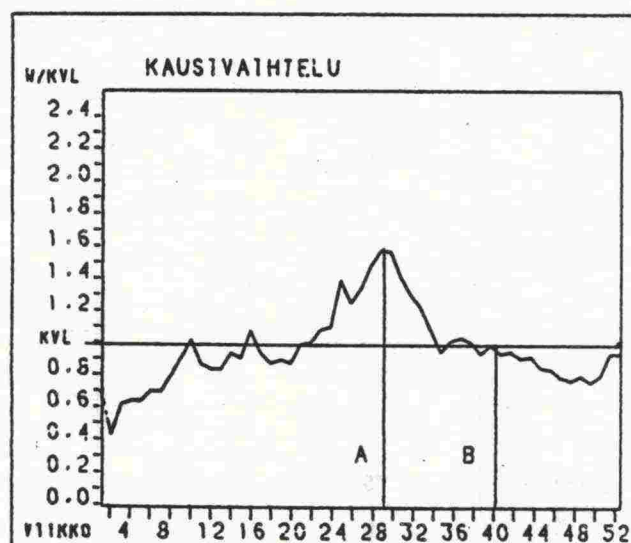
KAPP 1 %

KATP 2 %



H	Q	PE-SU (+KERTYMA)	HTK
1	253	100	0.1
30	209	90	1.4
100	180	91	4.1
150	171	87	5.9
300	156	78	10.9
1000	114	67	29.7
5000	40	41	90.2

(+) MONTAKO 2 KO-ENSIMMAISISTA TUNNEISTA OSUU PE-SU:LLE



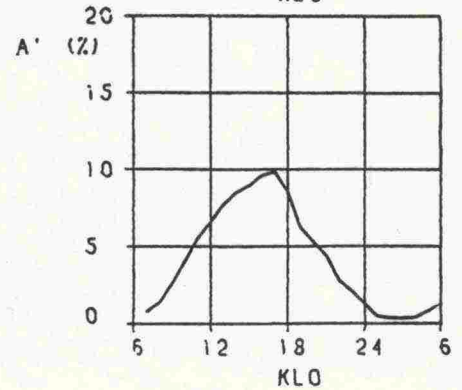
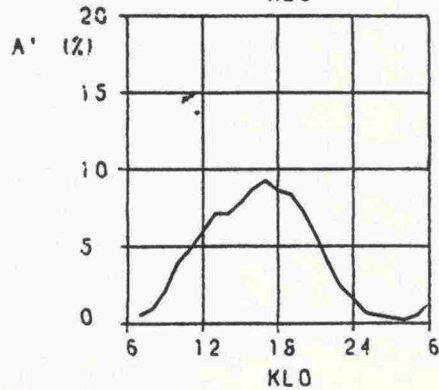
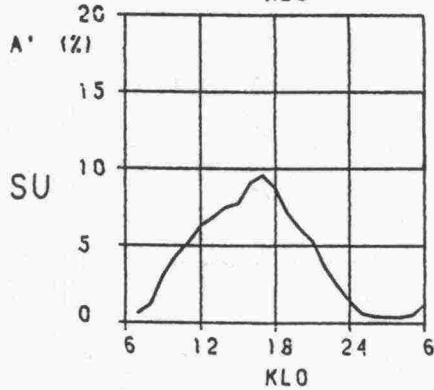
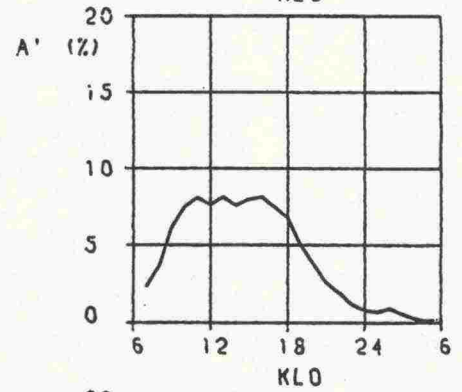
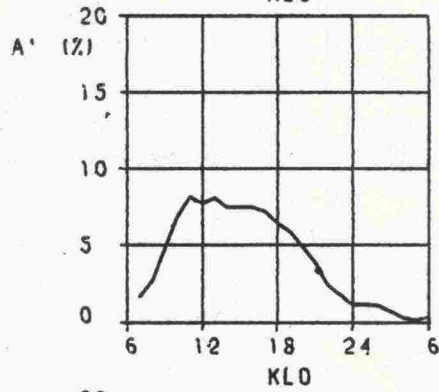
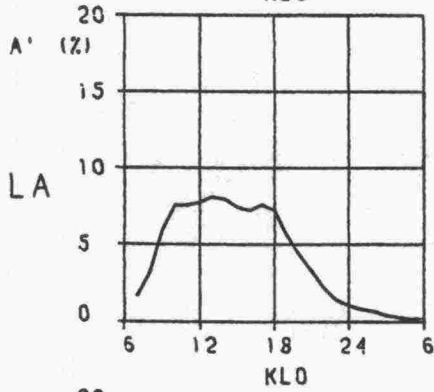
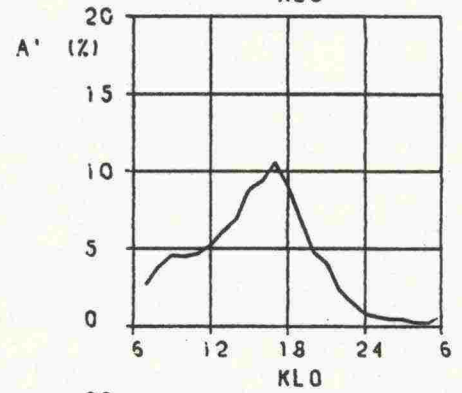
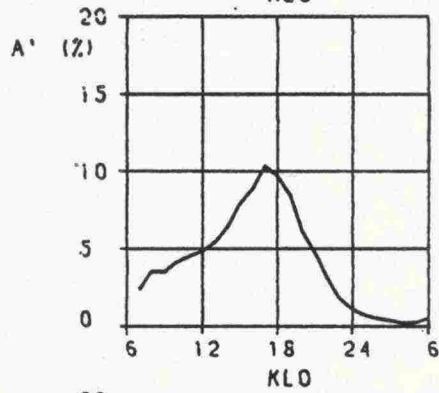
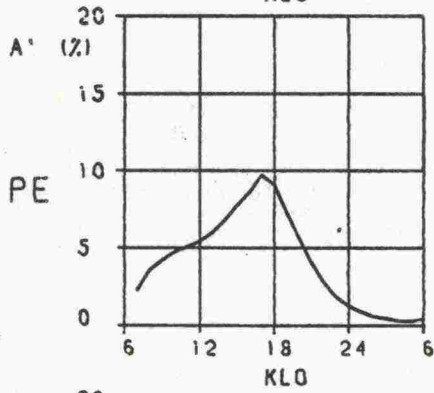
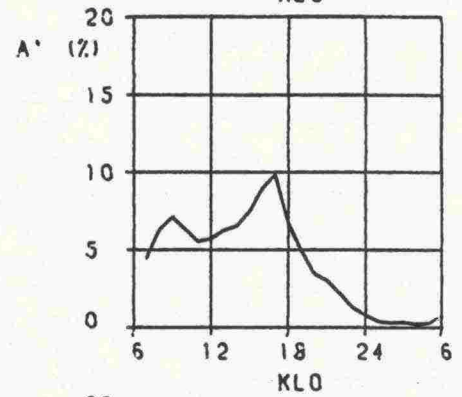
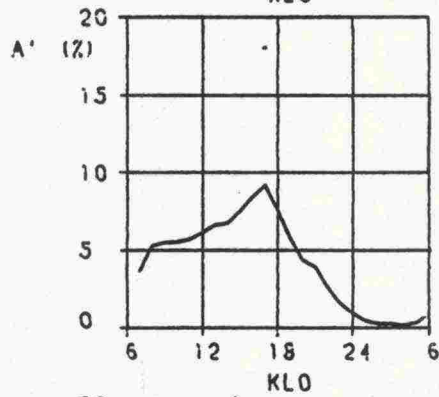
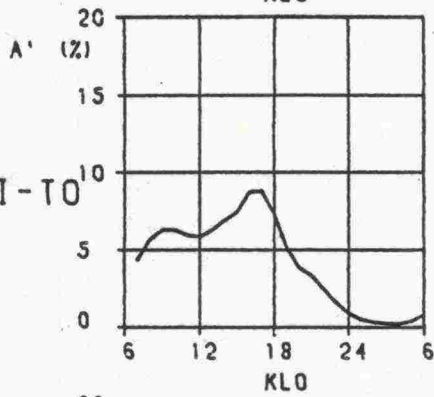
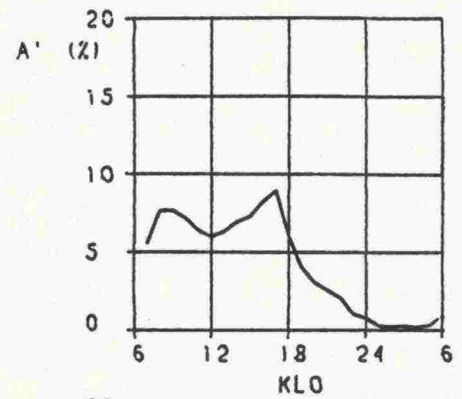
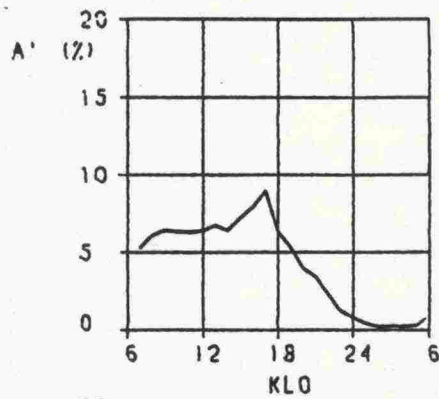
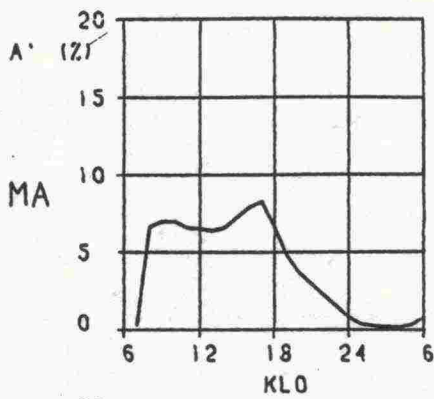


## TUNTIVAIHTELUT

HELMIKUU

HEINAKUU

LOKAKUU



712UURO

1987

VT18 TIEOSA 3 ETAISYYS 5.4 KM

KVL 7156

B' (SU/KESA) 0.93

KAVL 7223

KKVL 8353

D' 1.16

## ARKILIIKENTEN KOOSTUMUS

HA 84%

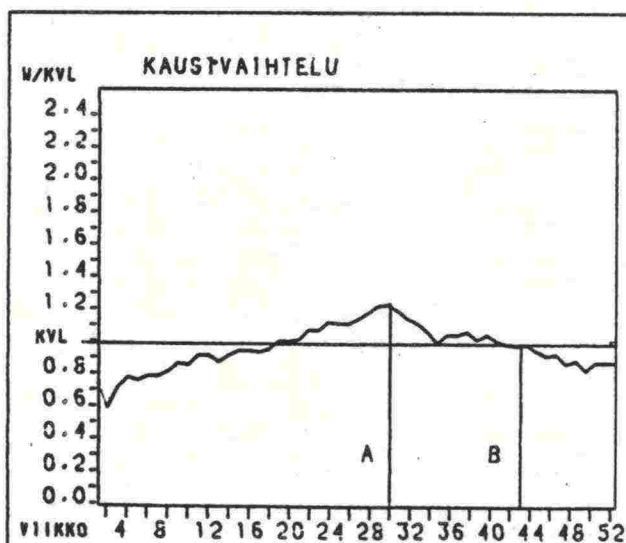
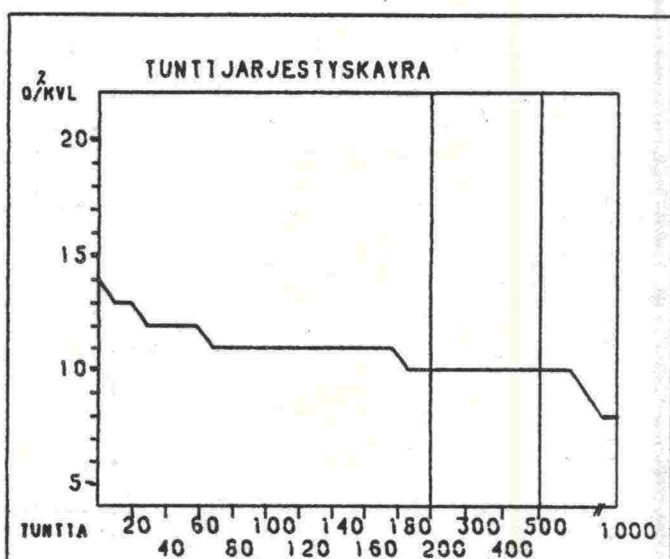
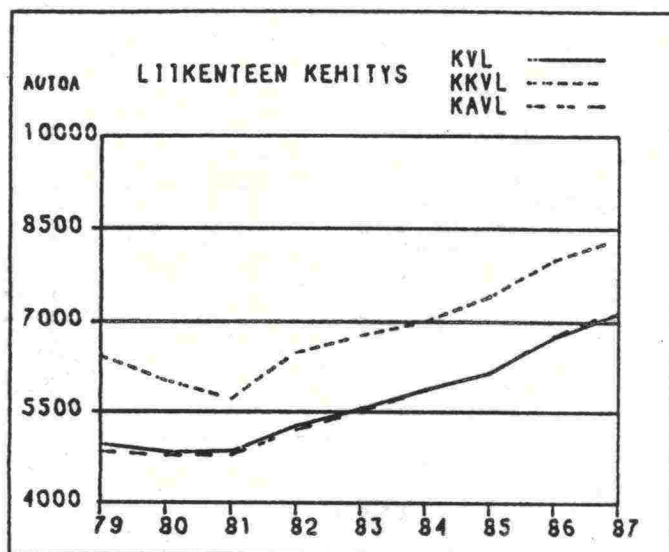
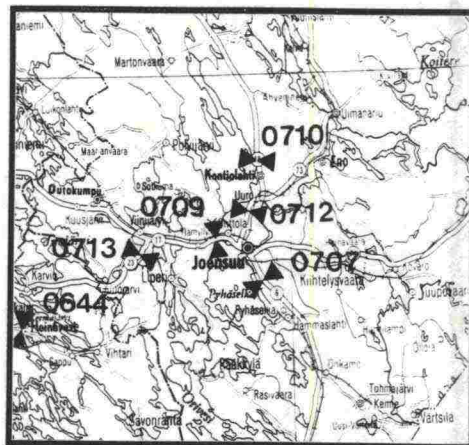
PA 7%

LA 2%

KAIP 4%

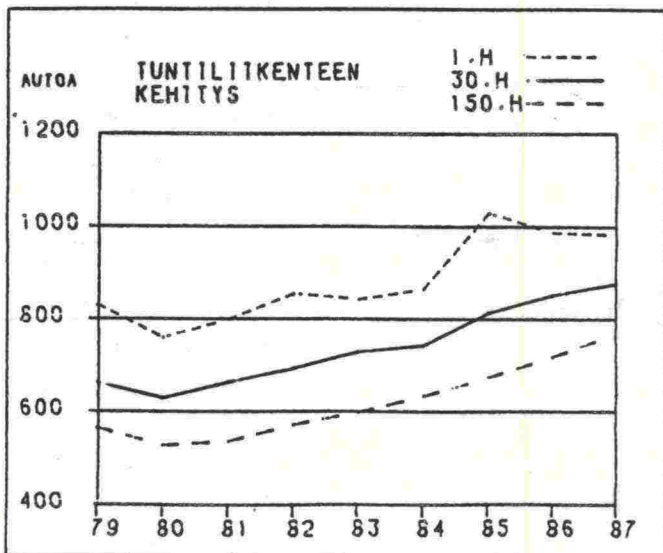
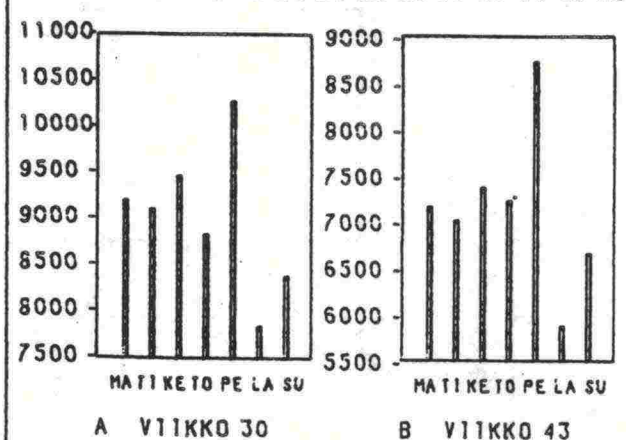
KAPP -%

KATP 3%



H	O	PE-SU (KERTYMA)	HTK
1	984	100	0.1
30	878	93	1.1
100	793	68	3.2
150	770	57	4.6
300	712	45	9.0
1000	564	44	25.8
5000	250	40	88.3

(\*) MONTAKO 2 KO-ENSIMMAISISTA TUNNEISTA OSUU PE-SU:LLE

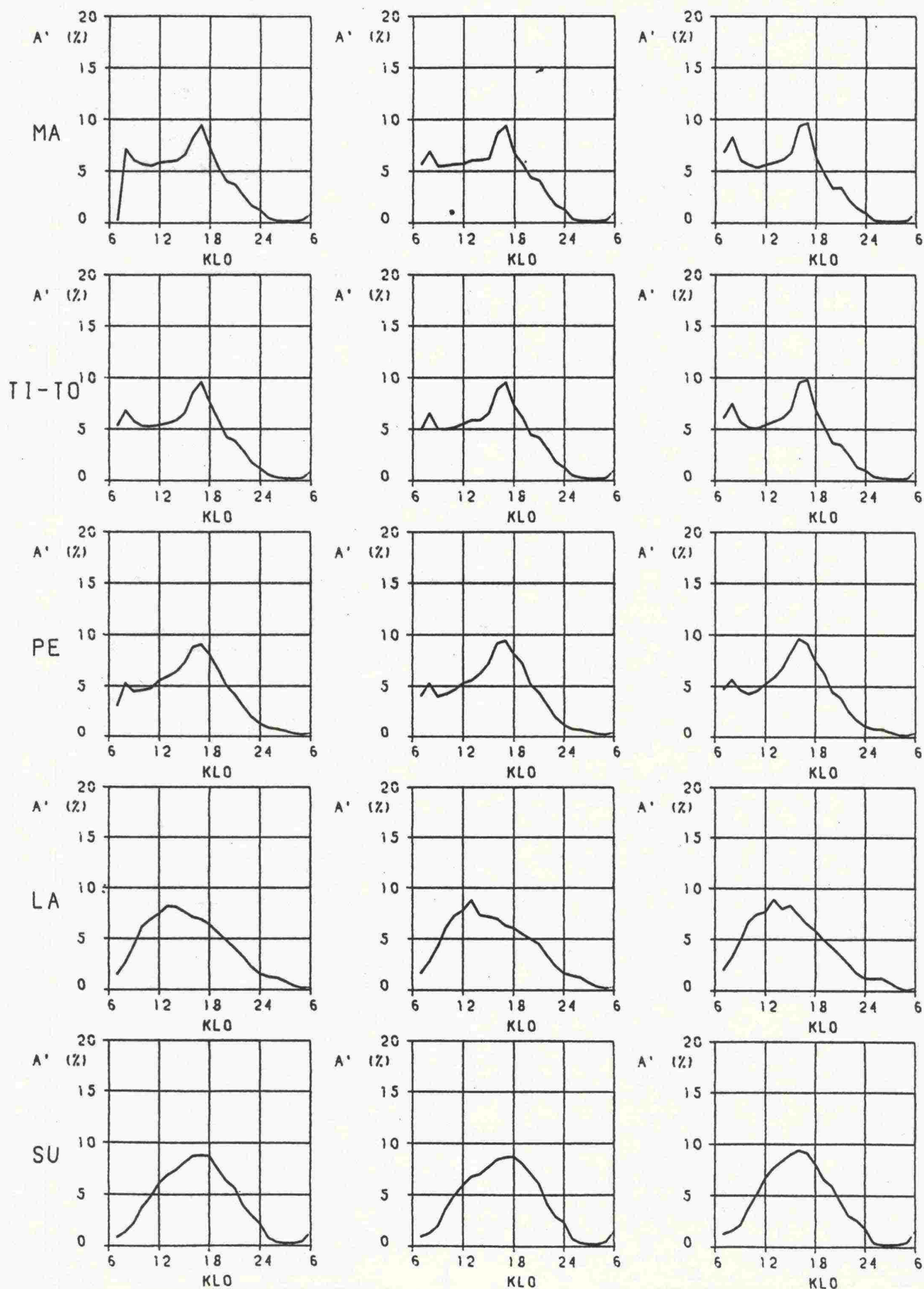




HELMIKUU

HEINAKUU

LOKAKUU



713RISTINPOHJA

1987

VT23

TIEOSA 417 ETAISYYS 5.3KM

KVL 1539

B' (SU/KESA) 1.23

KAVL 1407

KKVL 2104

D' 1.36

## ARKILIIKENTEEN KOOSTUMUS

HA 82 %

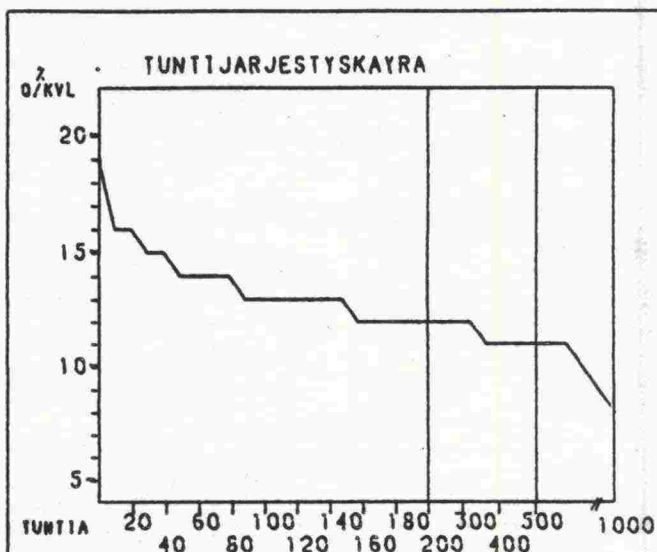
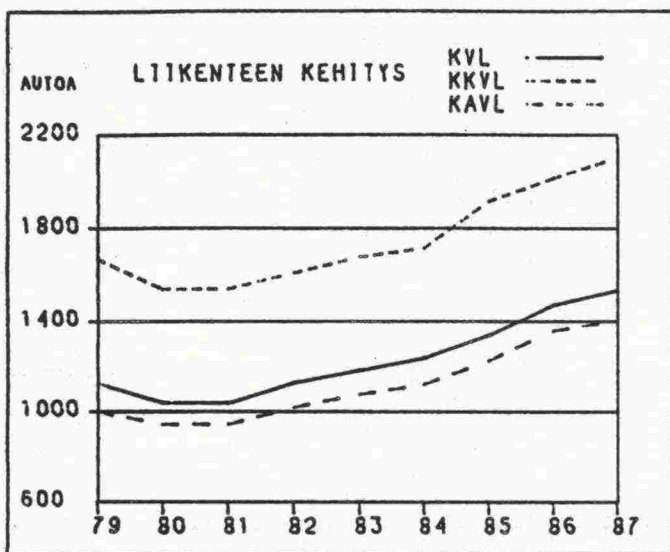
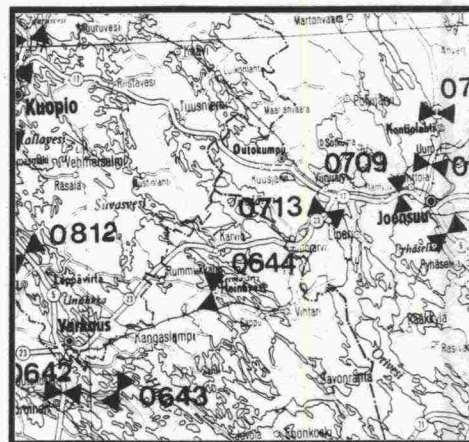
PA 6 %

LA 1 %

KAIP 5 %

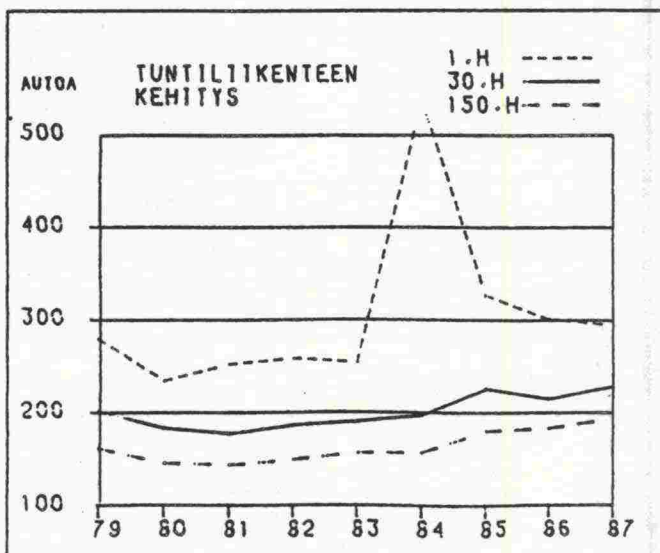
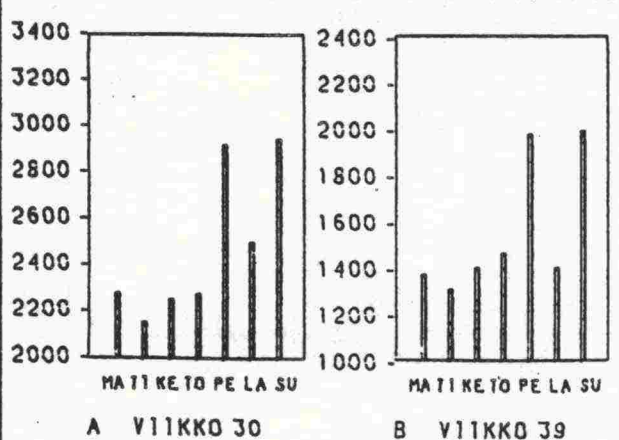
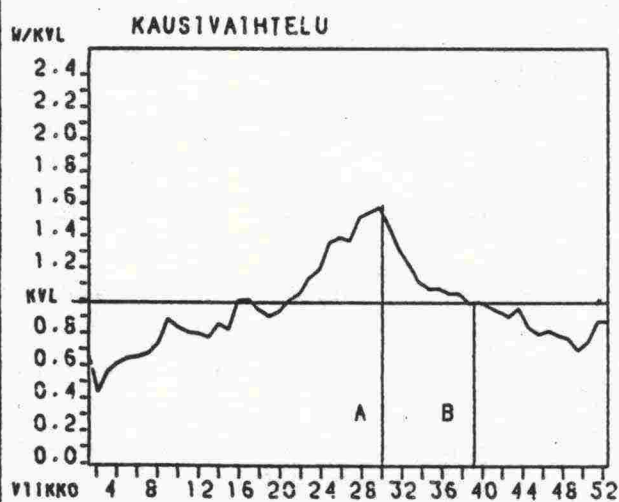
KAPP - %

KATP 6 %



H	O	PE-SU (*)	KERTYMA	HTK
1	295	100	0.1	0.81
30	223	80	1.3	0.88
100	204	89	4.0	0.88
150	194	85	5.8	0.87
300	172	82	10.6	0.98
1000	125	69	28.8	0.89
5000	49	42	86.5	0.77

(\*) MONTAKO 2 KO. ENSIMMAISISTA TUNNEISTA OSUU PE-SU-LLE.



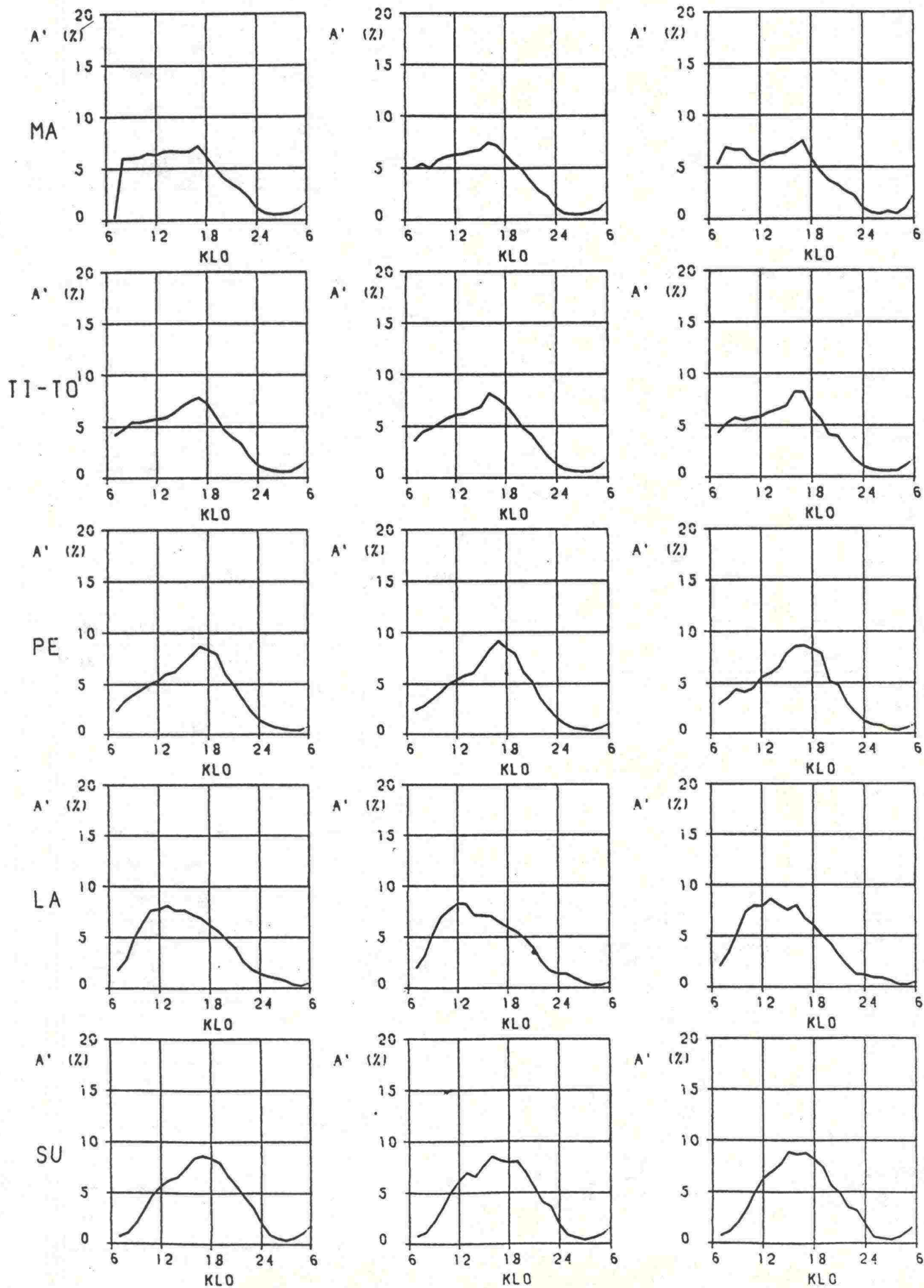


## TUNTIVAIHTELUT

HELMIKUU

HEINAKUU

LOKAKUU



803PUIJONRINNE

1987

VT5

TIEOSA 202 ETAISYYS 2.6 KM

KVL 18311

B' (SU/KESA) 0.89

KAVL 18822

KKVL 21410

D' 1.16

## ARKILIIKENTEN KOOSTUMUS

HA 85 %

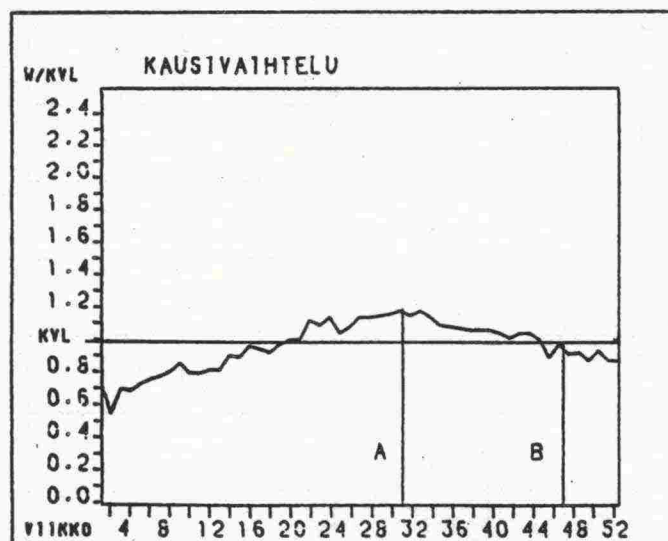
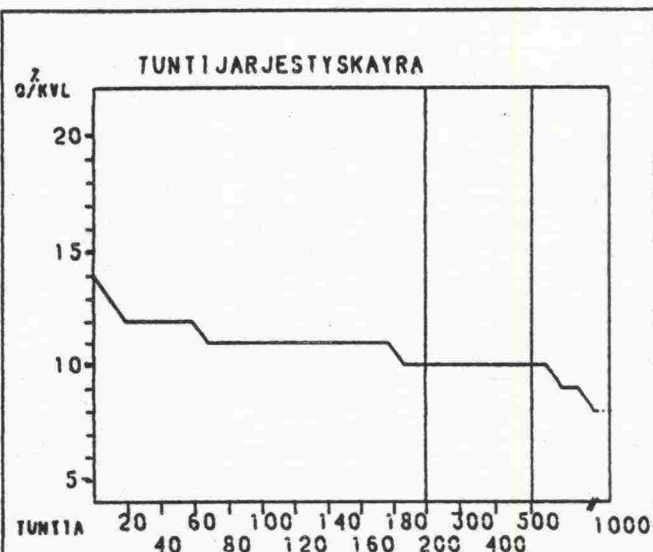
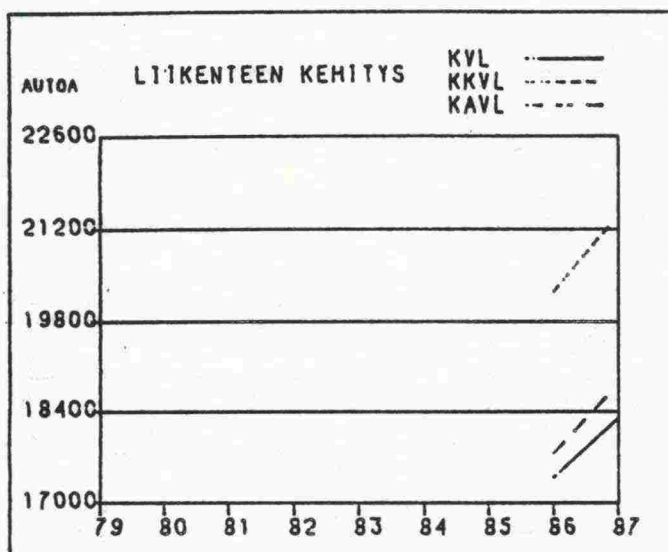
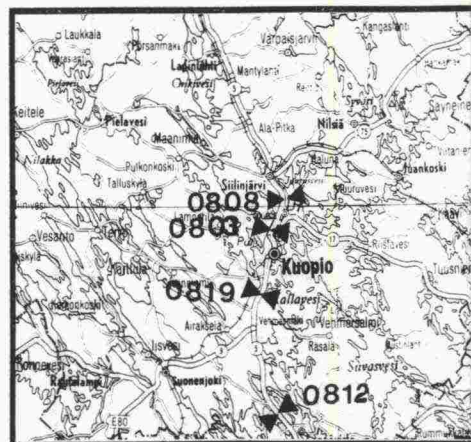
PA 5 %

LA 2 %

KAIP 3 %

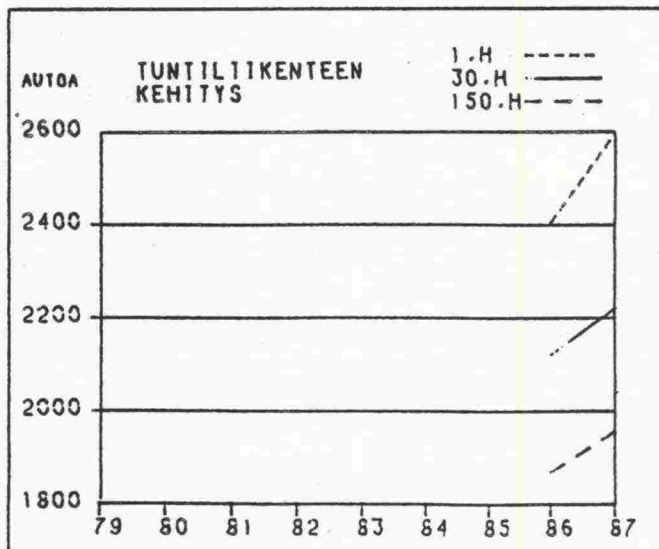
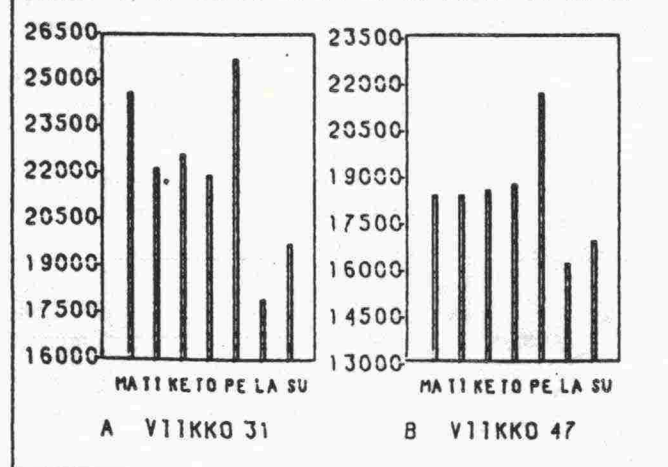
KAPP - %

KATP 5 %



H	Q	PE-SU (*)	KERTYMA	HTK
1	2600	100	0.1	0.91
30	2222	100	0.1	0.91
100	2039	54	3.2	0.89
150	1958	47	4.8	0.79
300	1821	35	9.0	0.87
1000	1428	41	25.7	0.81
5000	646	39	87.2	0.85

(\*) MONTAKO X KO. ENSIMMAISISTA TUNNEISTA OSUU PE-SU-LLE



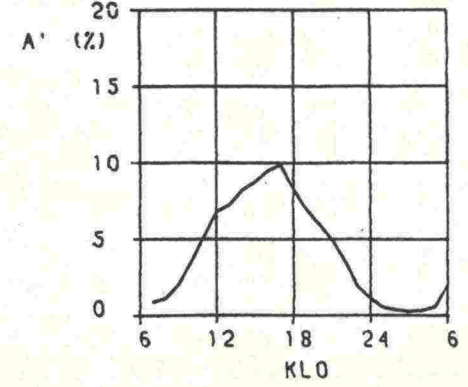
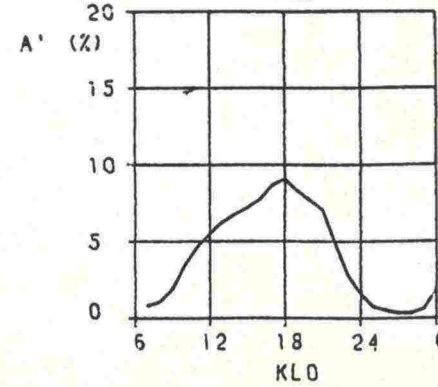
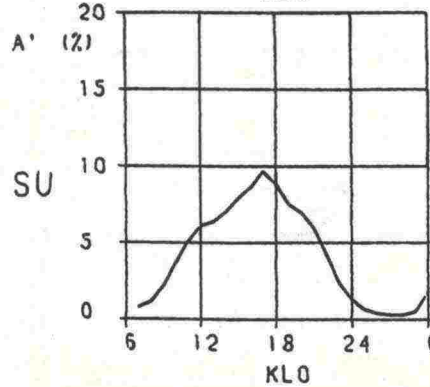
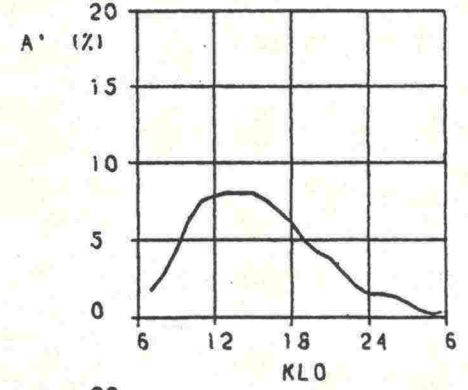
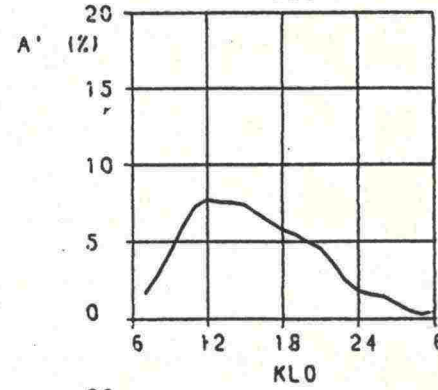
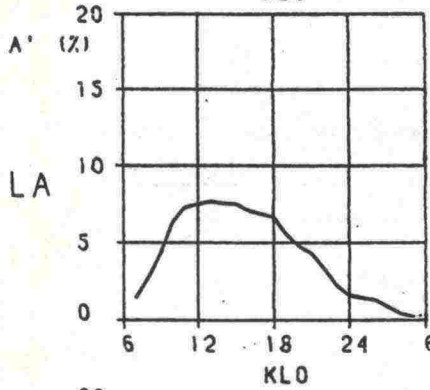
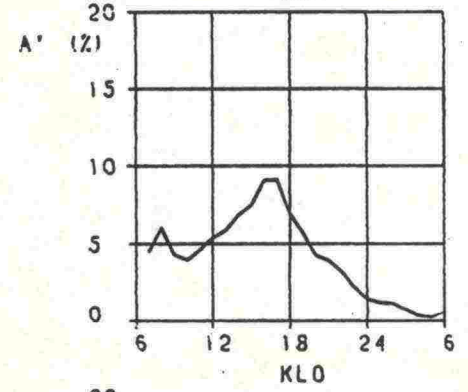
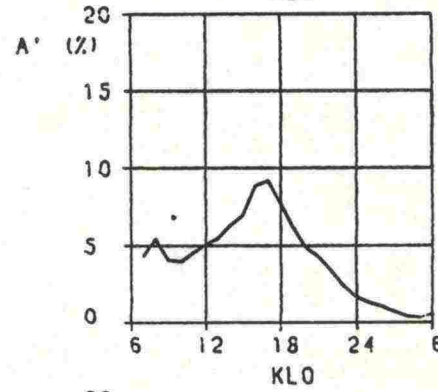
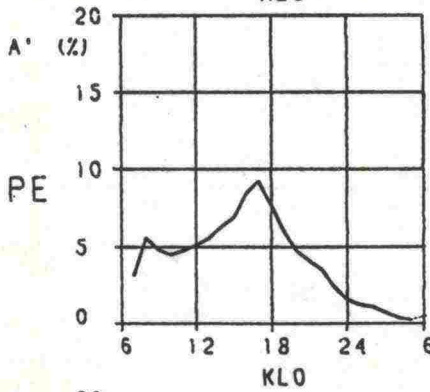
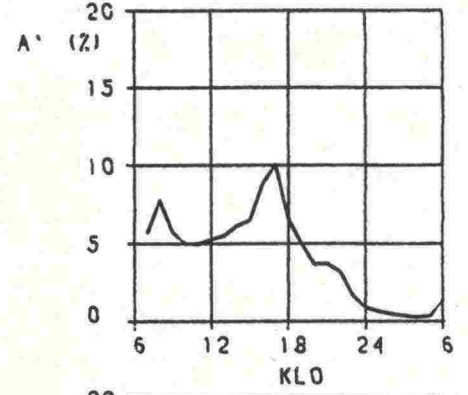
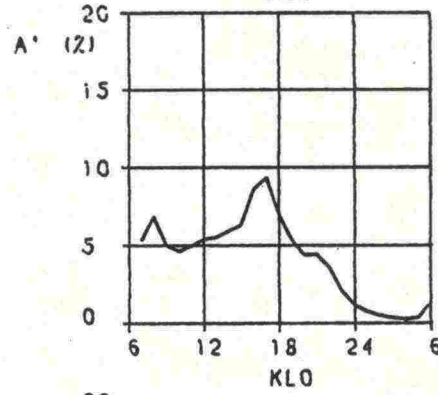
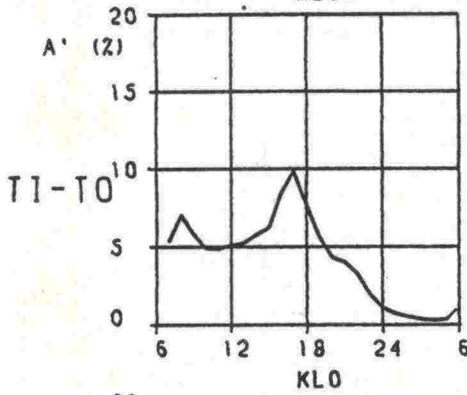
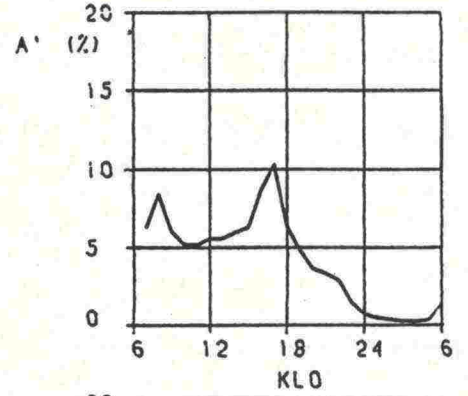
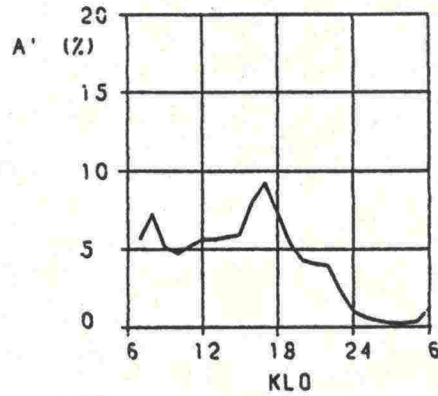
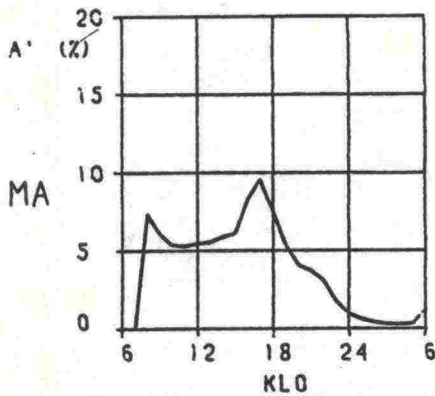


## TUNTIVAIHTELUT

HELMIKUU

HEINAKUU

LOKAKUU



## 808SIILINJÄRVI

1987

VT5

TIEOSA 204 ETAISYYS 0.0KM

KVL 12381

B' (SU/KESA) 0.95

KAVL 12341

KKVL 14191

D' 1.14

## ARKILIIKENTEN KOOSTUMUS

HA 74%

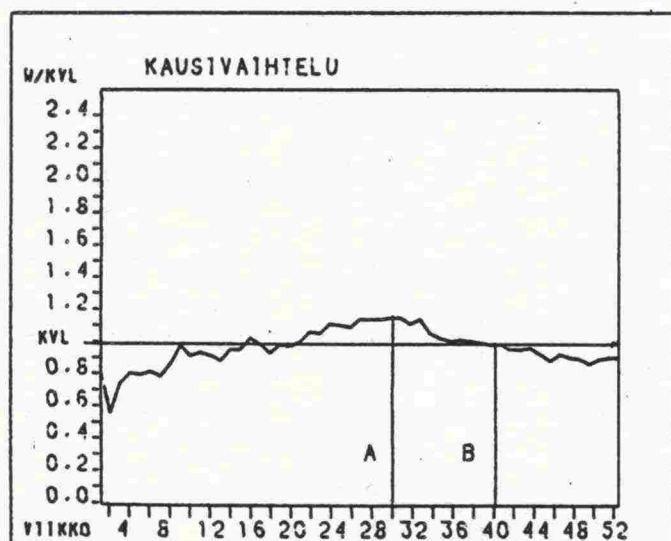
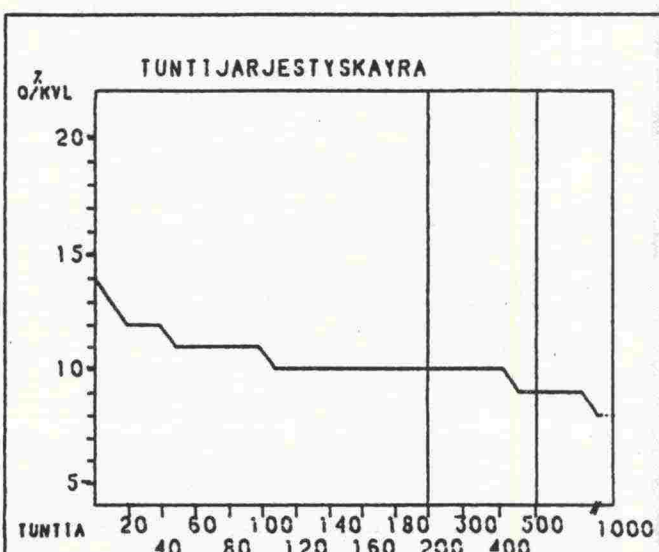
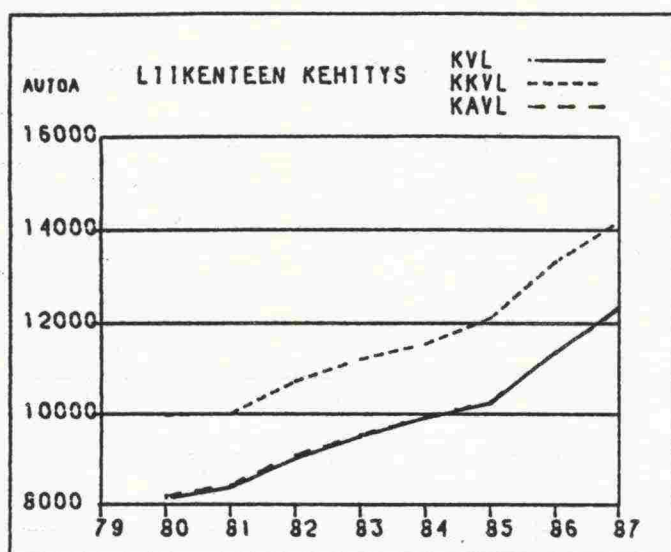
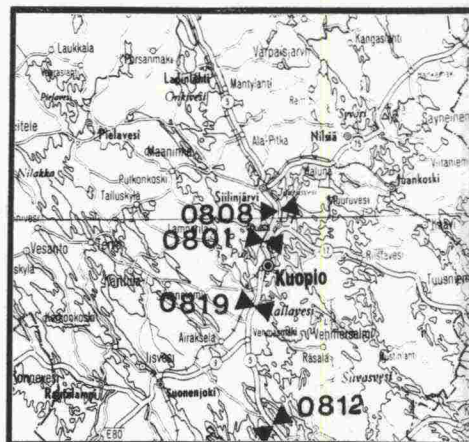
PA 9%

LA 2%

KAIP 6%

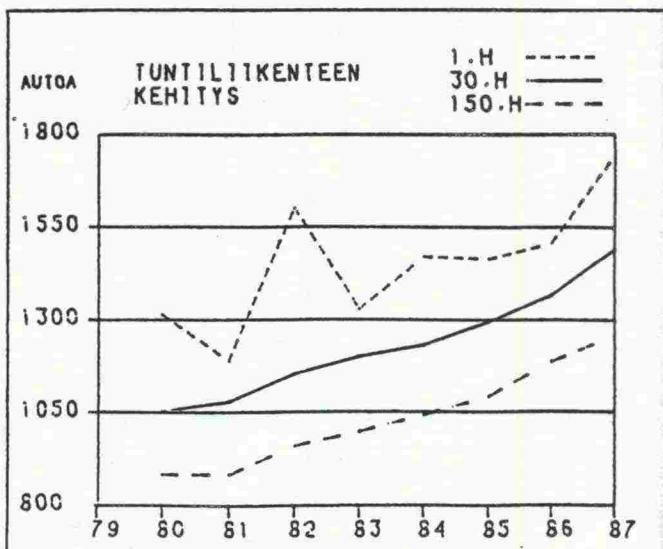
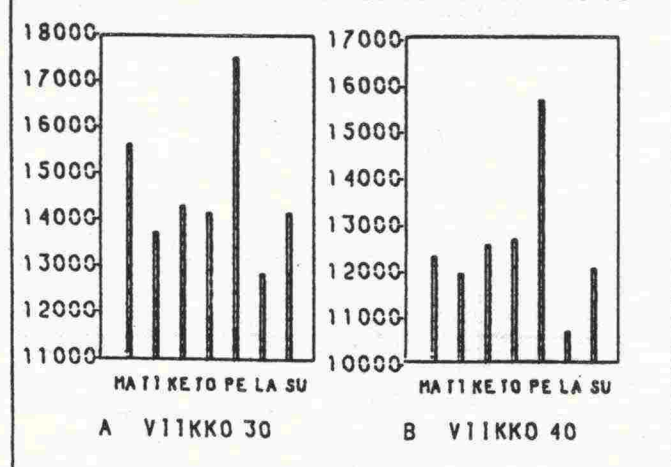
KAPP 1%

KATP 8%



H	Q	PE-SU (KERTYMA)	HTK
1	1746	100	0.1
30	1493	87	1.0
100	1315	86	3.2
150	1260	75	4.6
300	1181	55	8.6
1000	963	49	25.1
5000	454	40	86.5

(\*) MONTAKO 2 KO-ENSIMMAISISTA TUNNEISTA OSUU PE-SU-LLE



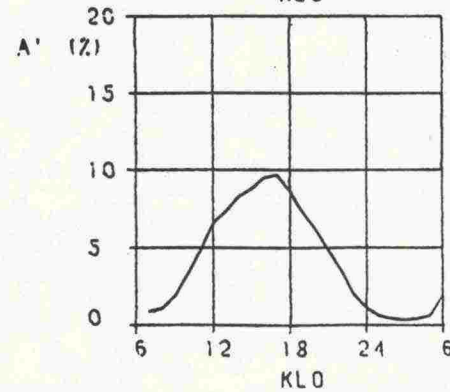
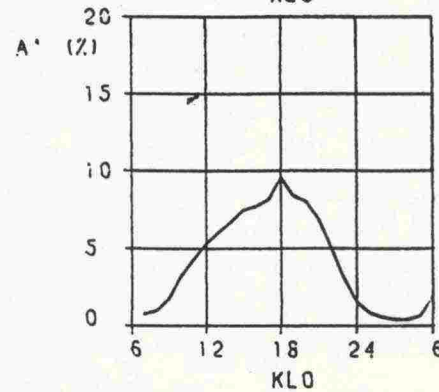
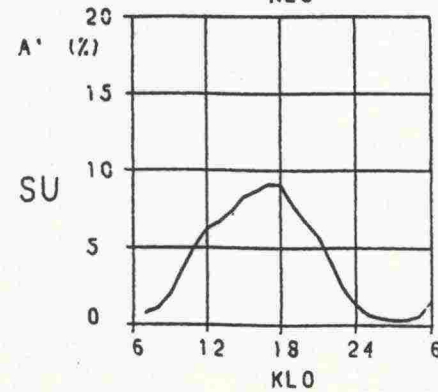
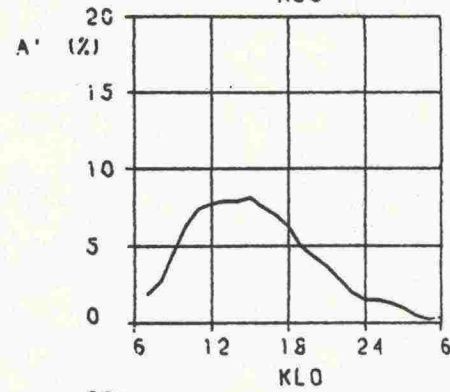
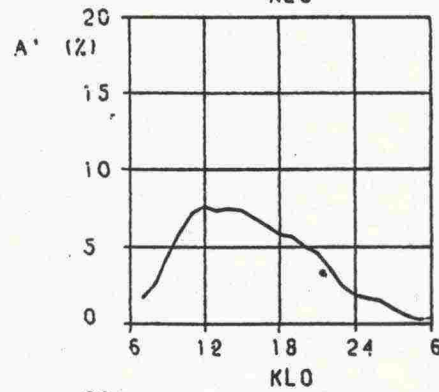
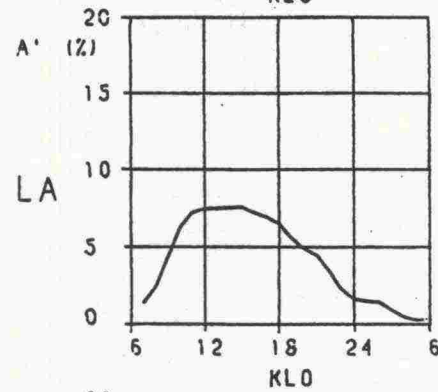
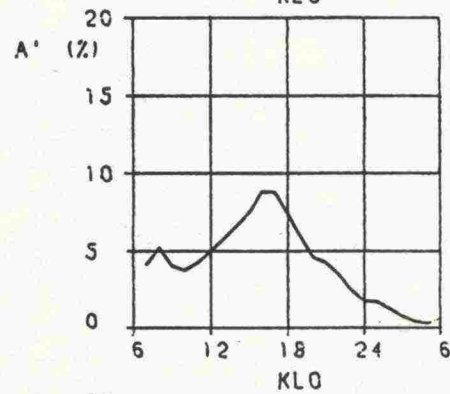
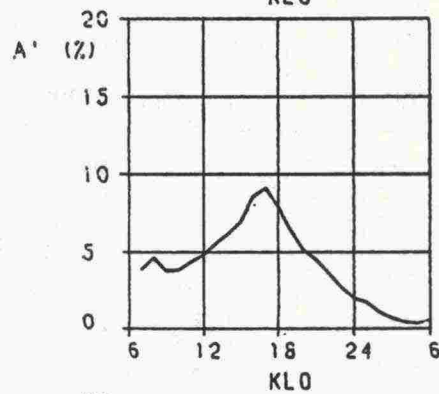
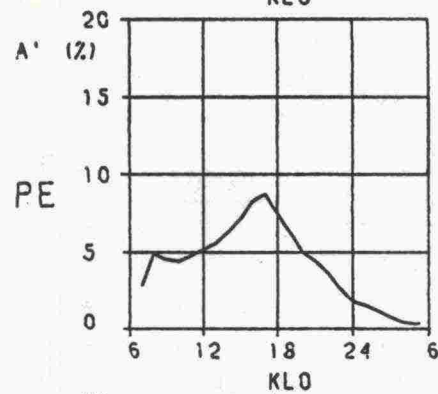
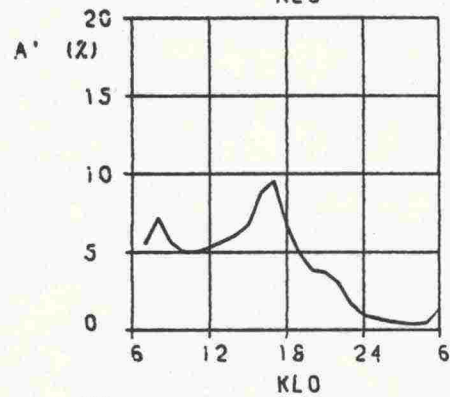
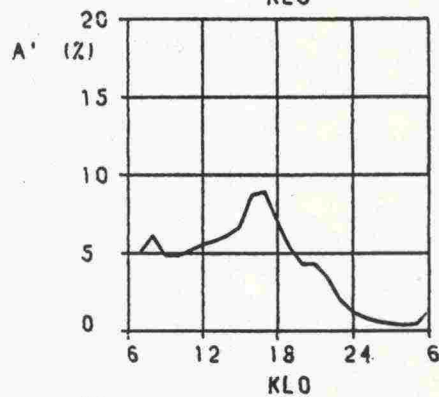
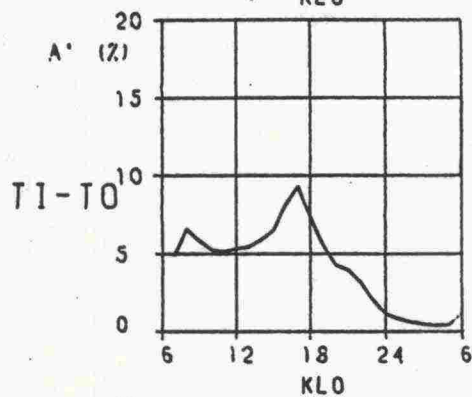
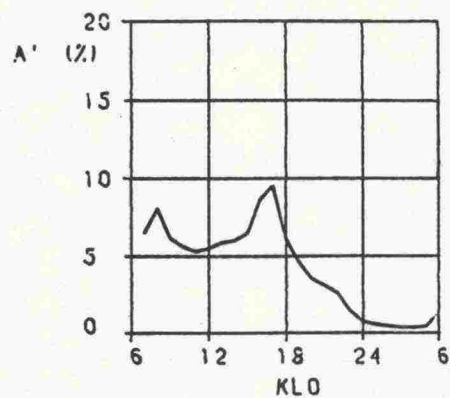
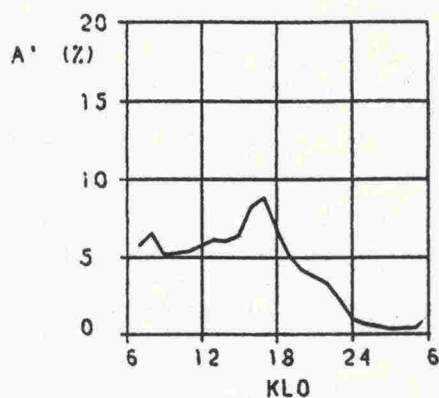
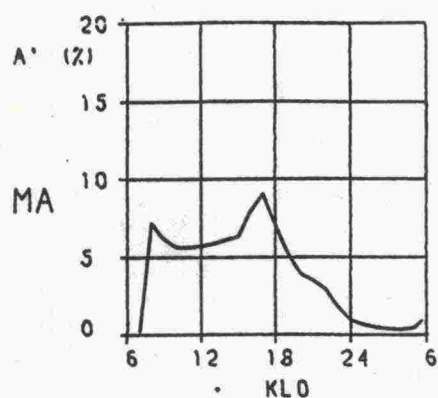


## TUNTIVAIHTELUT

HELMIKUU

HEINAKUU

LOKAKUU



812LEPPÄVIRTA

1987

VT5

TIEOSA 151 ETAISYYS 5.0KM

KVL 4336

B' (SU/KESA) 1.15

KAVL 4056

KKVL 5519

D' 1.27

## ARKILIIKENTEEN KOOSTUMUS

HA 82 %

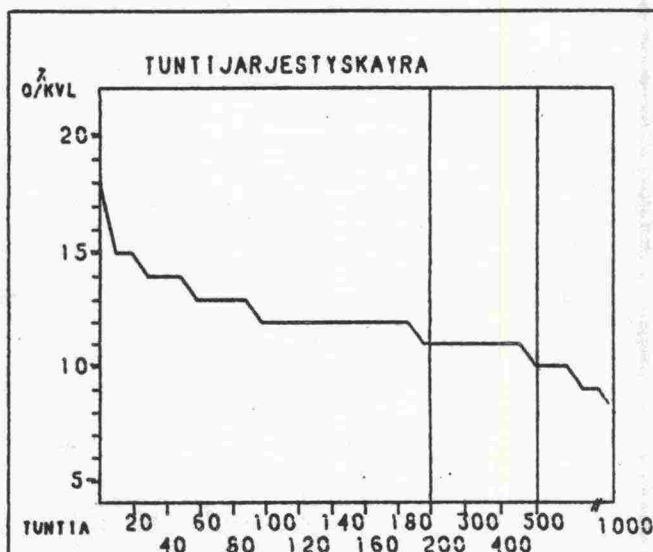
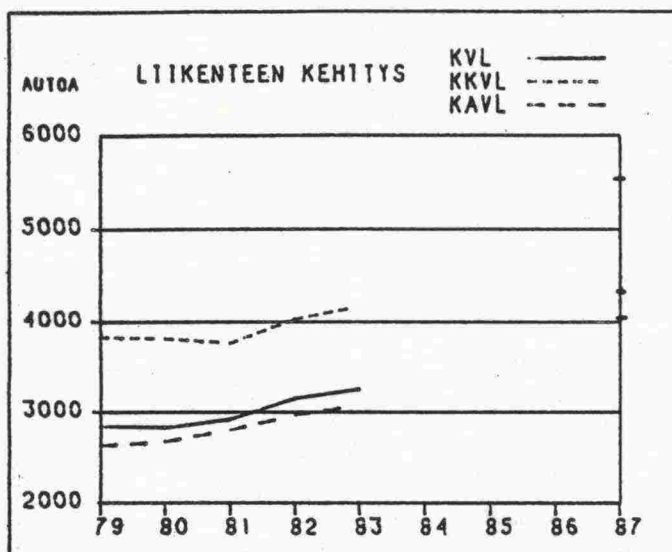
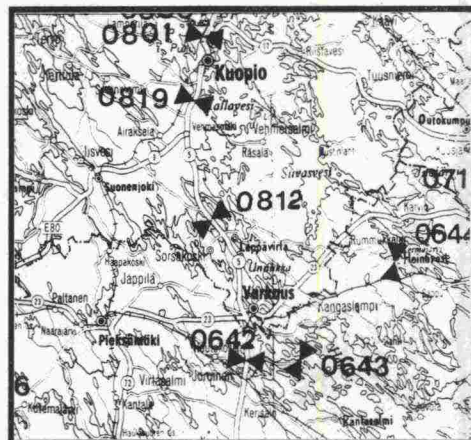
PA 5 %

LA 2 %

KAIP 4 %

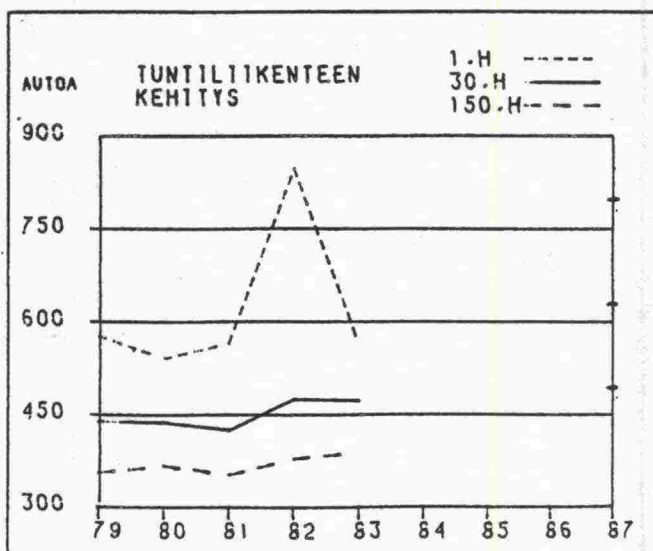
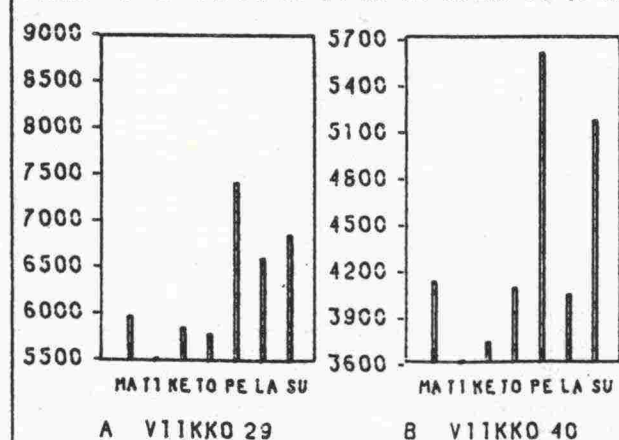
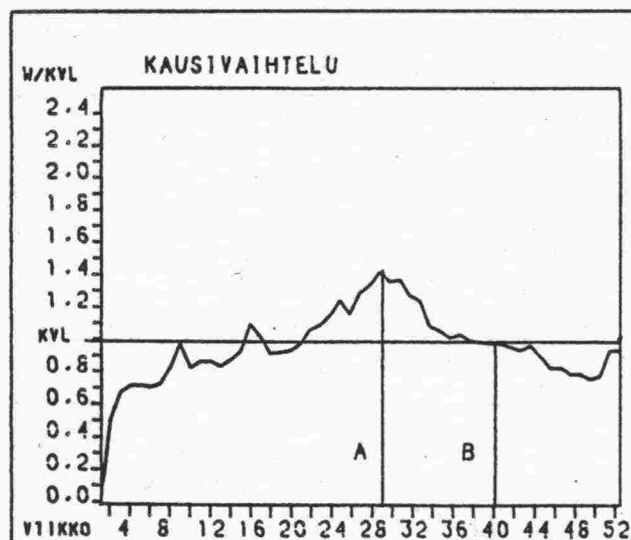
KAPP - %

KATP 7 %



H	O	PE-SU (KERTYMA)	HTK
1	797	100	0.1
30	628	77	1.3
100	541	83	3.8
150	513	86	5.3
300	465	86	10.1
1000	346	69	27.7
5000	140	42	86.4

(1) MONTAKO % KO-ENSIMMAISISTA TUNNEISTA OSUU PE-SU:ALLE

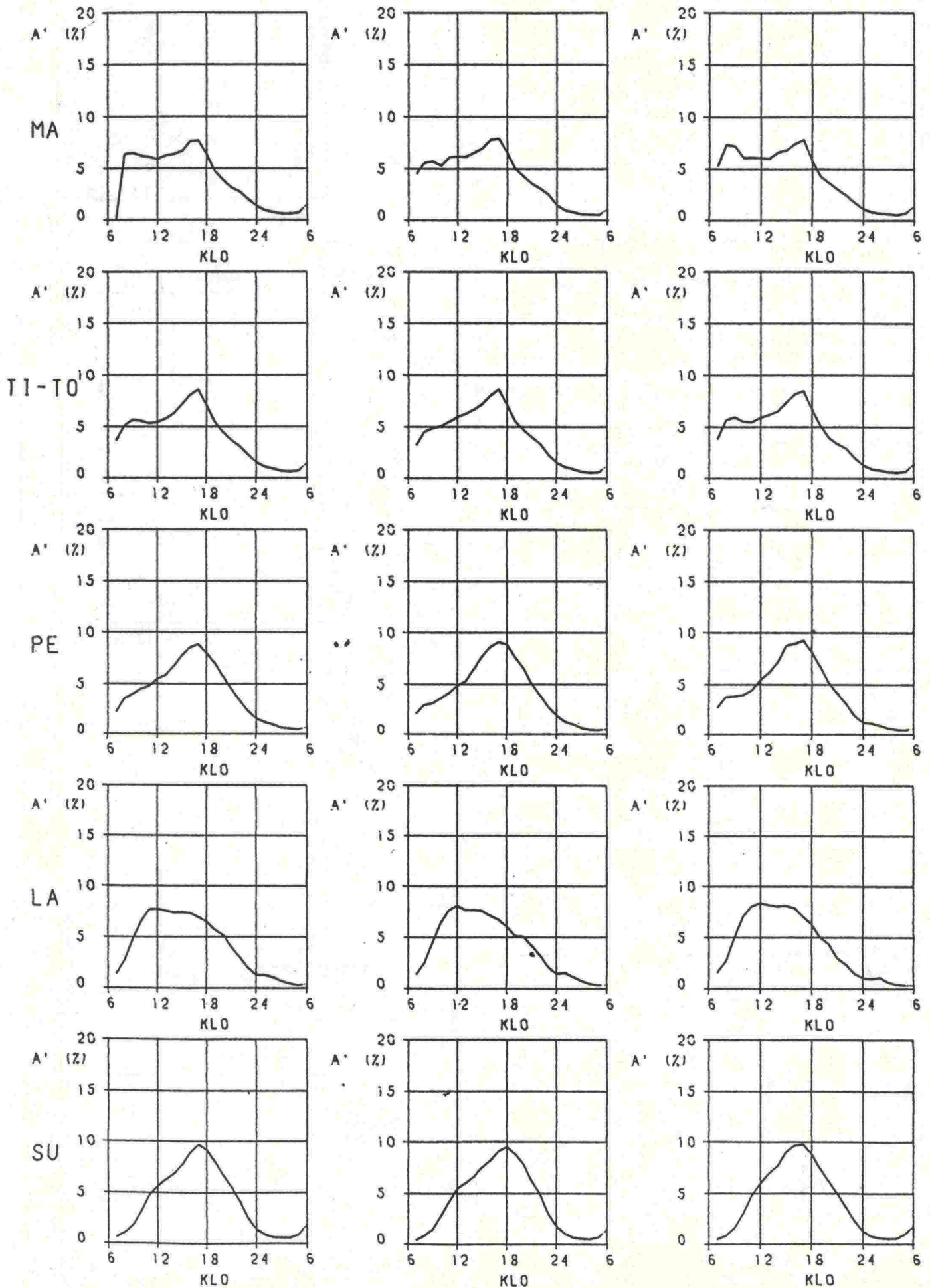




HELMIKUU

HEINAKUU

LOKAKUU



818 IISALMI

VT5

TIEOSA 217 ETAISYYS 4.5 KM

1987

KVL 15448

B' (SU/KESA) 0.82

KAVL 15843

KKVL 17026

D' 1.10

## ARKILIIKENTEEN KOOSTUMUS

HA 56 %

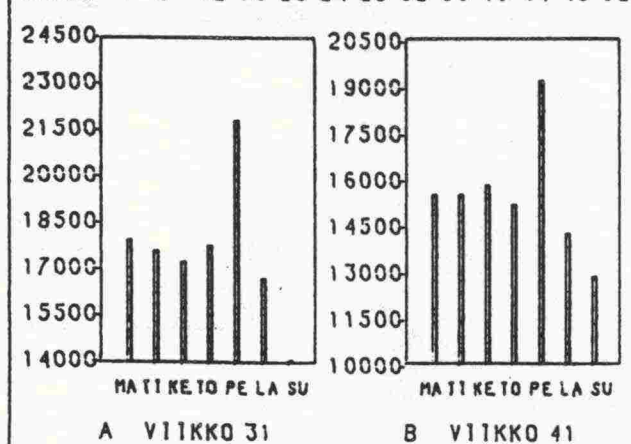
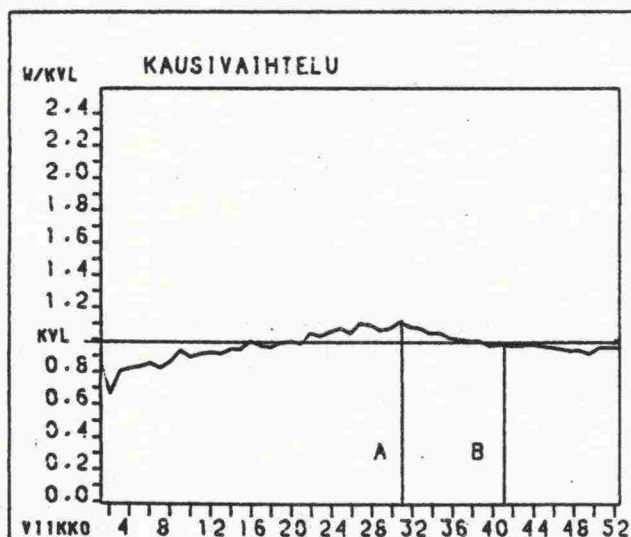
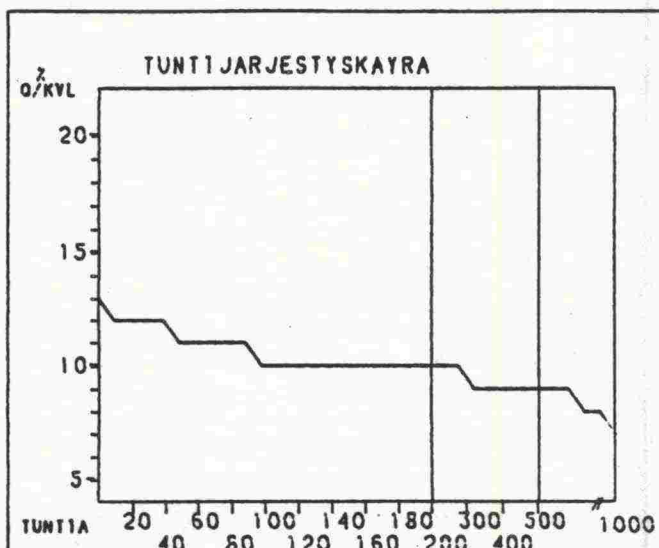
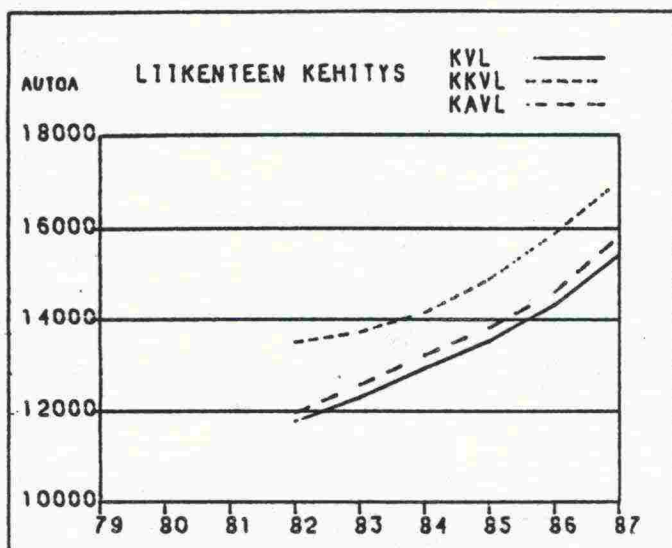
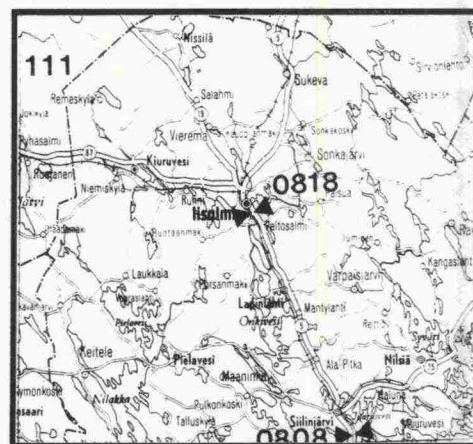
PA 11 %

LA 8 %

KAIP 14 %

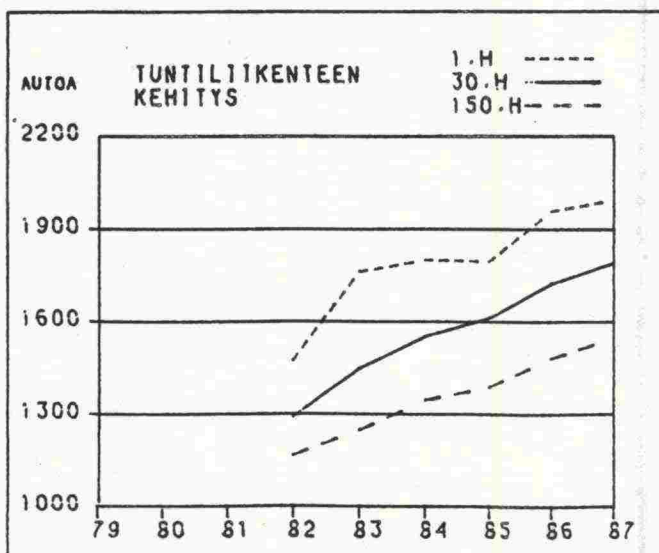
KAPP 1 %

KATP 10 %



H	Q	PE-SU (°KERTYMA	HTK
1	1997	100	0.1
30	1793	90	1.0
100	1612	79	3.1
150	1548	63	4.5
300	1438	43	8.5
1000	1149	36	24.1
5000	617	39	86.0

(°) MONTAKO X KO-ENSIMMAISISTA TUNNEISTA OSUQ PE-SU:LE



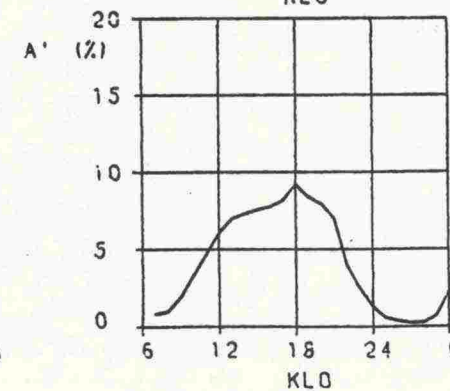
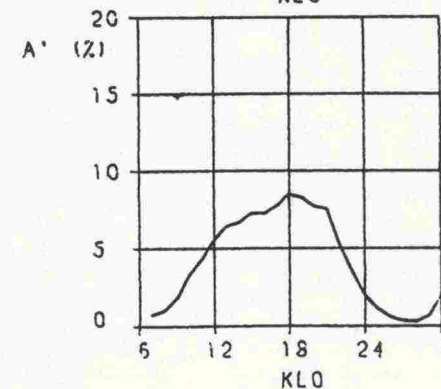
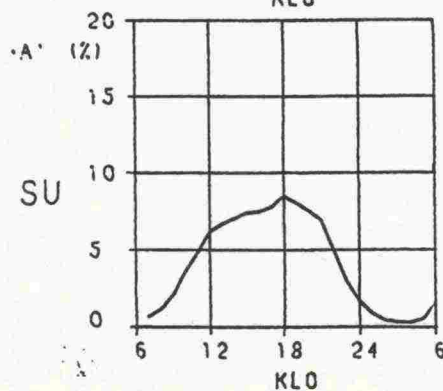
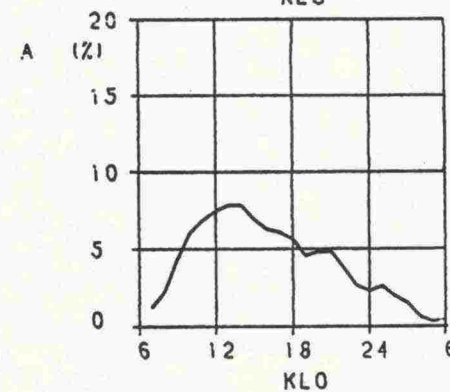
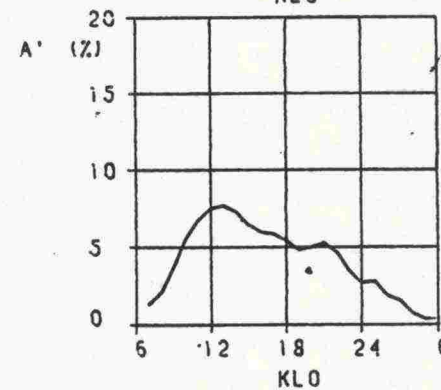
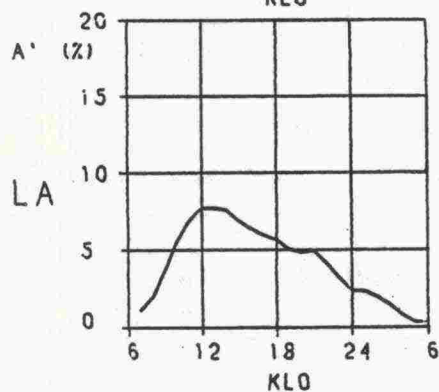
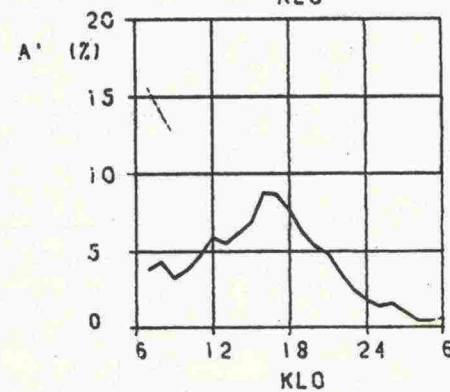
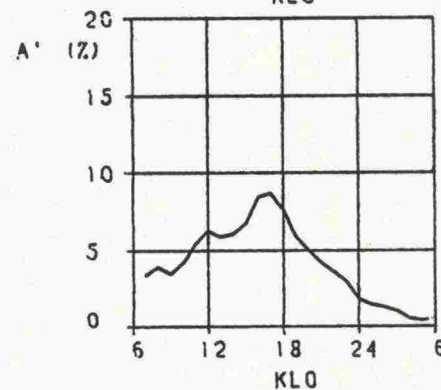
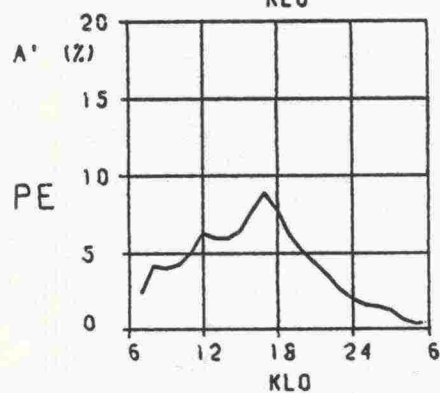
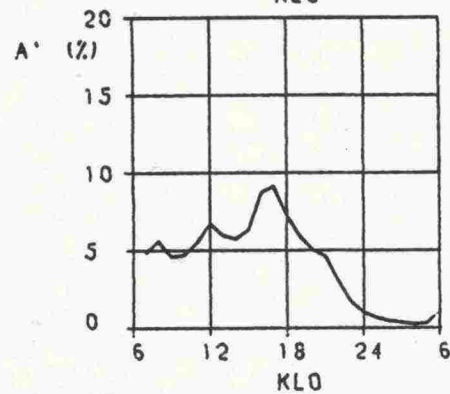
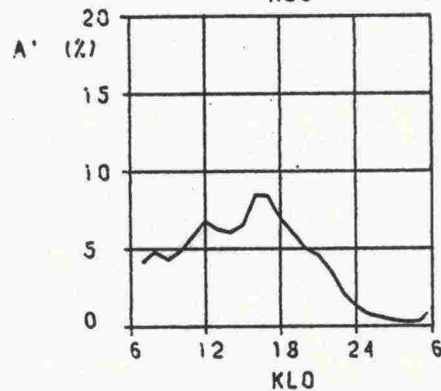
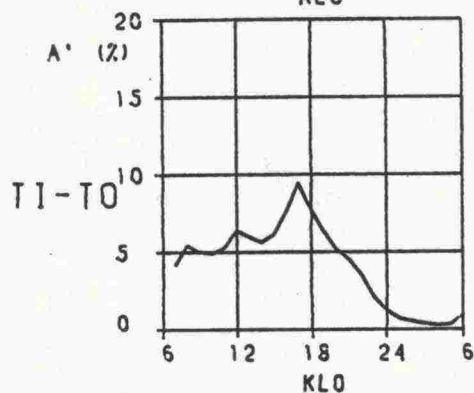
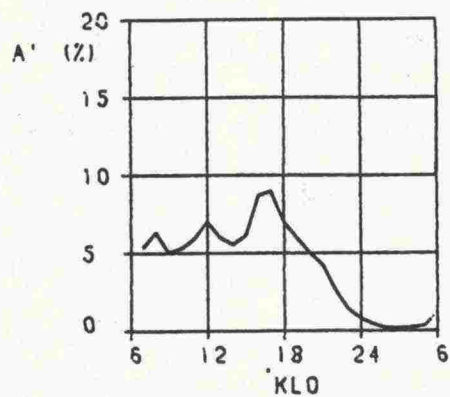
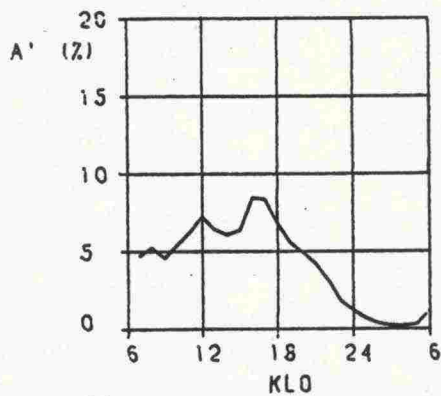
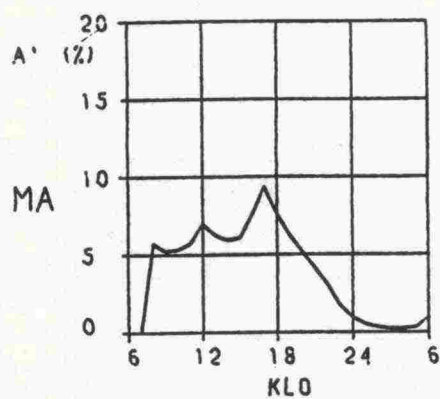


## TUNTIVAIHTELUT

HELMIKUU

HEINAKUU

LOKAKUU



## 819KUOPIO/PITKÄLAHTI 1987

VT5 TIEOSA 161 ETAISYYS 0.7 KM

KVL 12562 B' (SU/KESA) 1.03

KAVL 12208

KKVL 15788

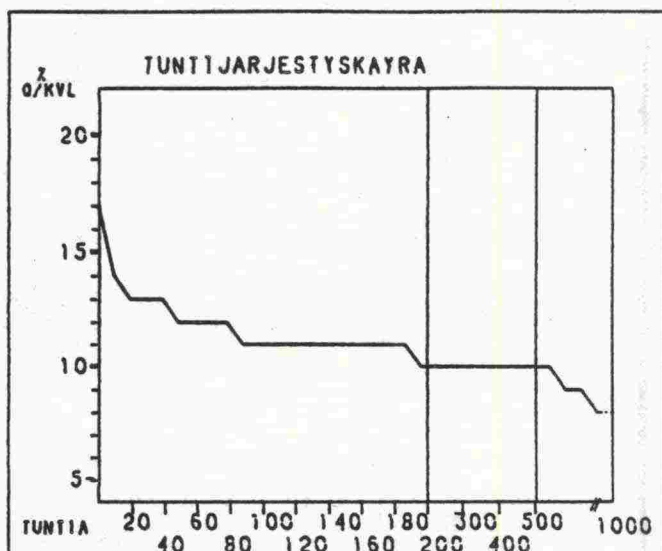
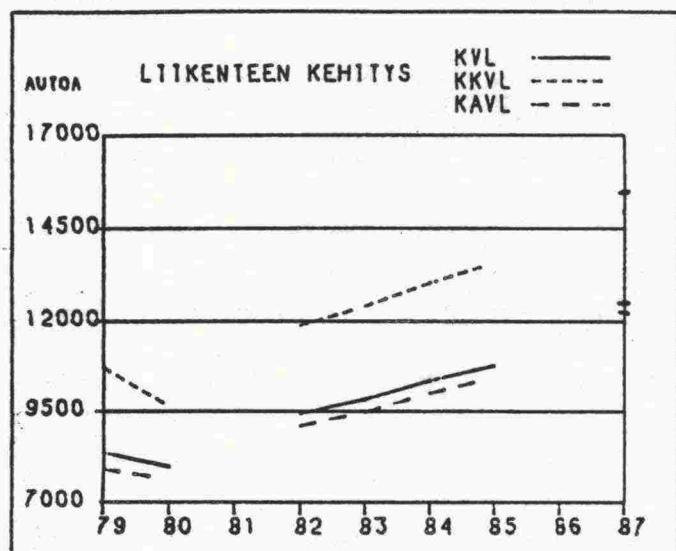
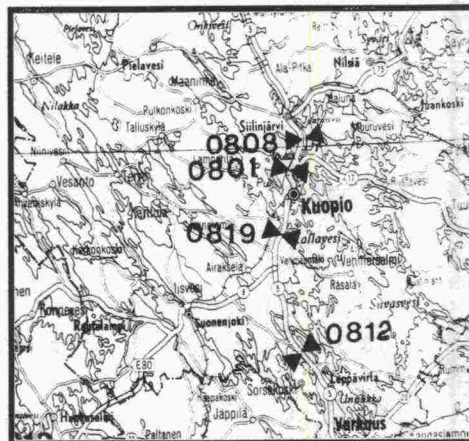
D' 1.25

## ARKILIIKENTEEEN KOOSTUMUS

HA 74% PA 10%

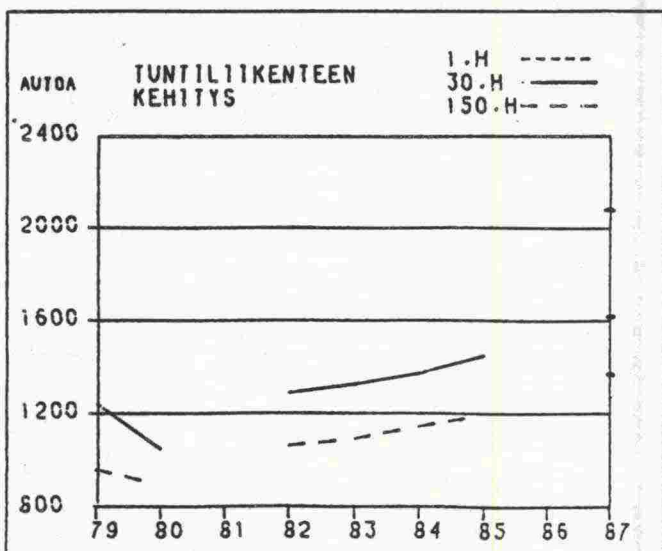
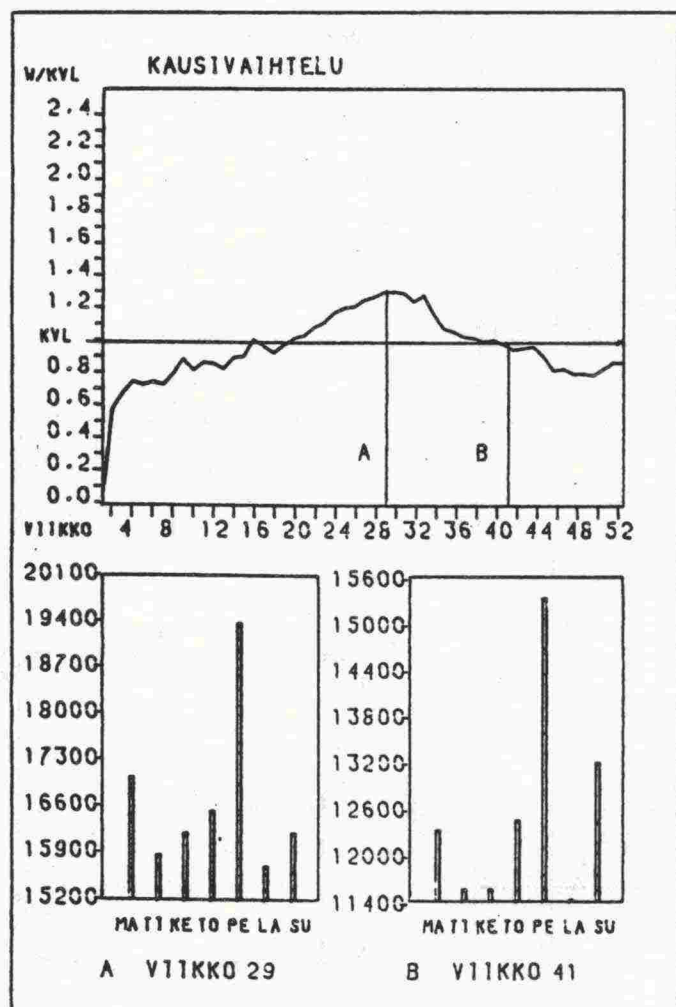
LA 3% KAIP 7%

KAPP 1% KATP 5%



H	Q	PE-SU (KERTYMA)	HTK
1	2080	100	0.1
30	1622	90	1.1
100	1422	86	3.4
150	1360	76	4.9
300	1245	66	9.2
1000	976	57	25.6
5000	446	41	86.1

(•) MONTAKO X KO ENSIMMAISISTA TUNNEISTA OSUU PE-SU LLE



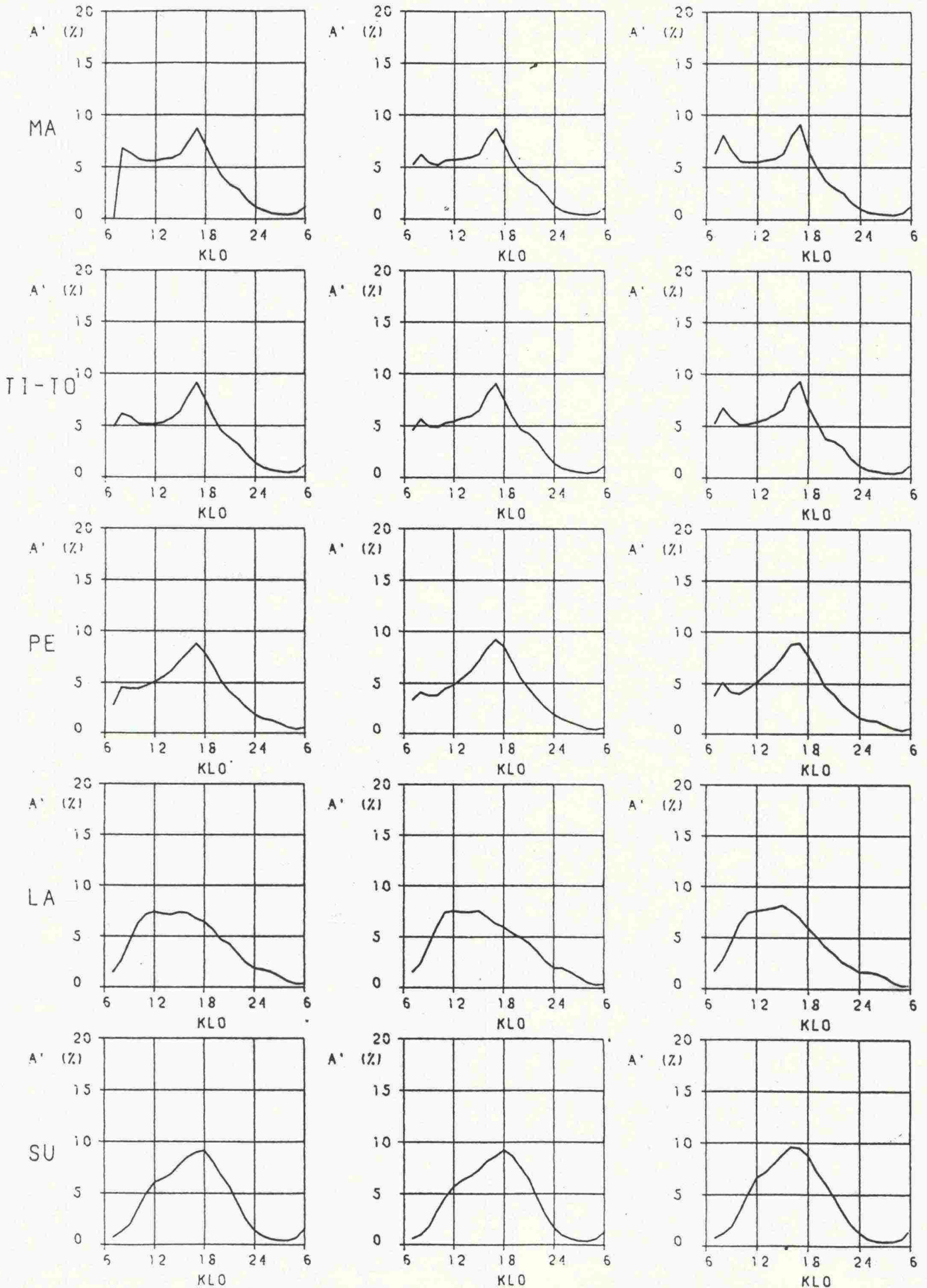


## TUNTIVAIHTELUT

HELMIKUU

HEINAKUU

LOKAKUU



907 JYVÄSKYLÄ

1987

VT4

TIEOSA 234 ETAISYYS 2.1 KM

KVL 9851

B' (SU/KESA) 1.07

KAVL 9384

KKVL 12090

D' 1.22

## ARKILIIKENTEN KOOSTUMUS

HA 85 %

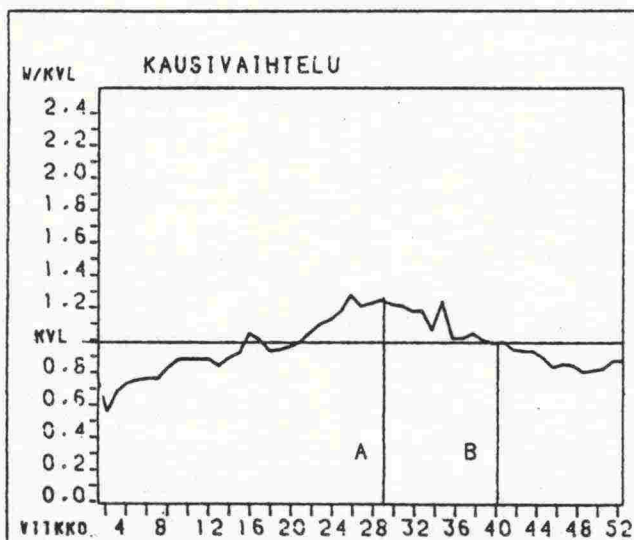
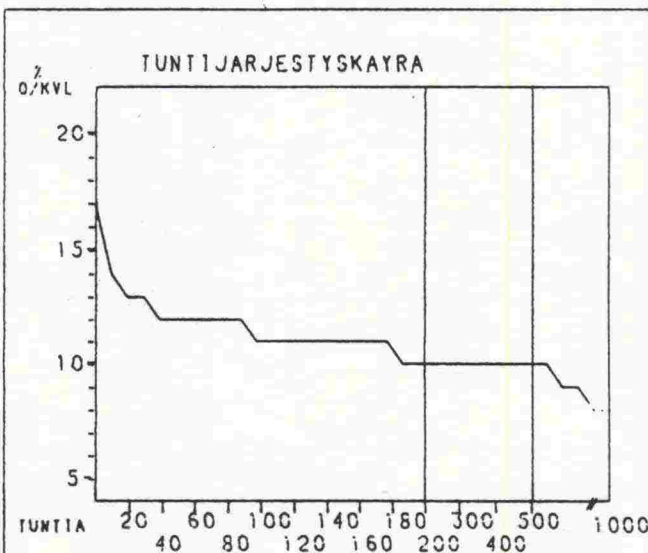
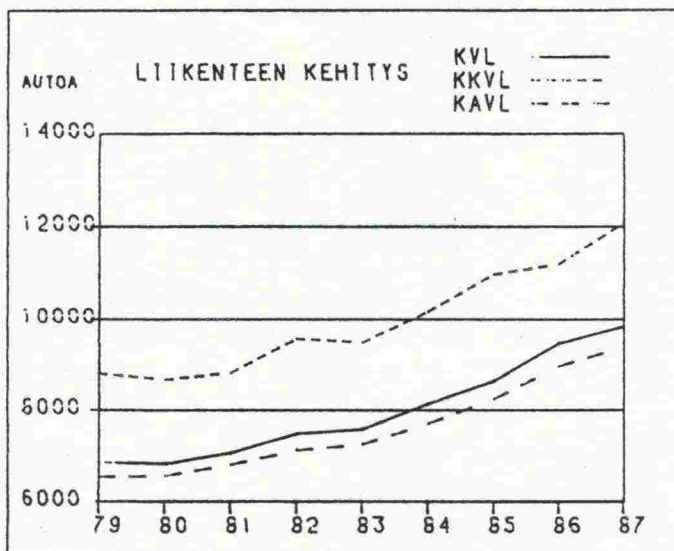
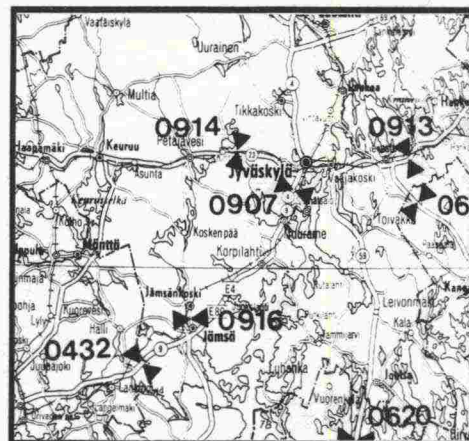
PA 7 %

LA 2 %

KAIP 3 %

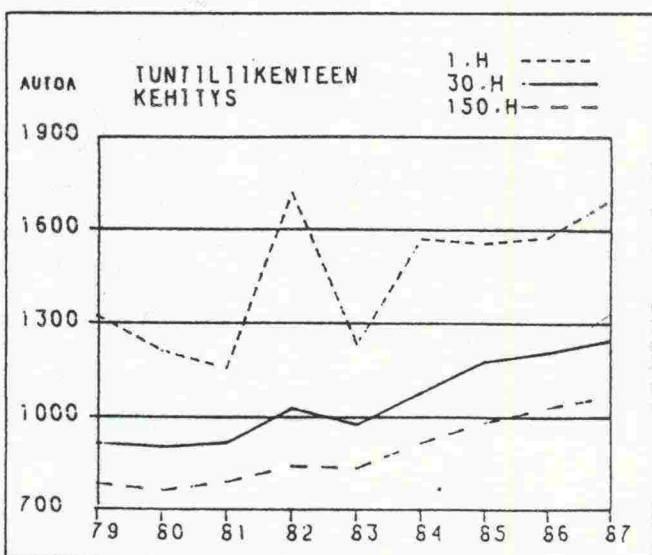
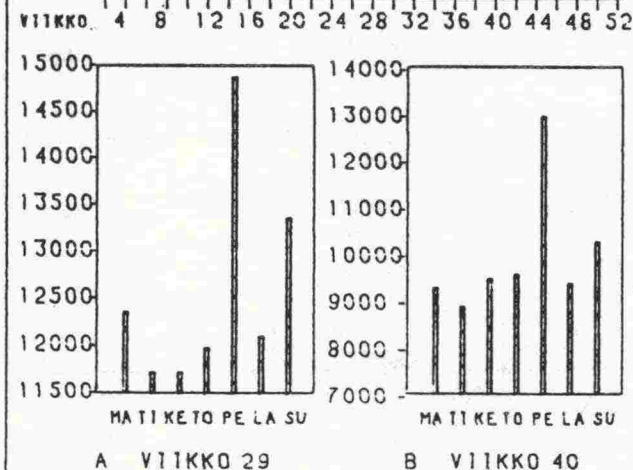
KAPP 1 %

KATP 2 %



H	O	PE-SU (KERTYMA)	HTK
1	1700	100	0.1
30	1247	73	1.1
100	1126	84	3.4
150	1068	84	4.9
300	970	78	9.1
1000	762	61	25.7
5000	351	41	84.2

(\*) MONTAKO % KO-ENSIMMAISISTA TUNNEISTA OSUUS PE-SU:lle

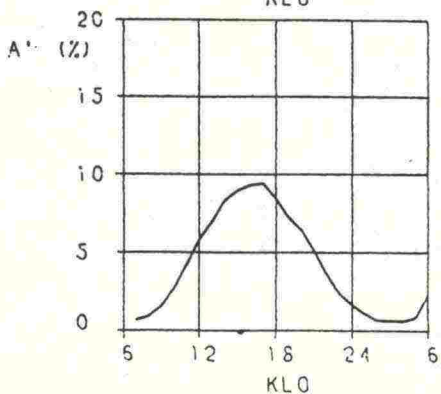
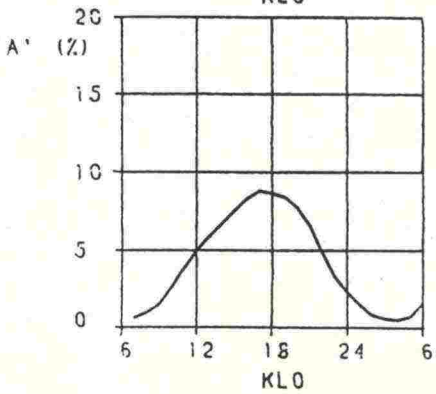
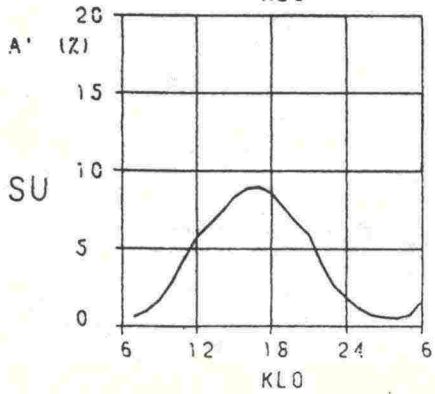
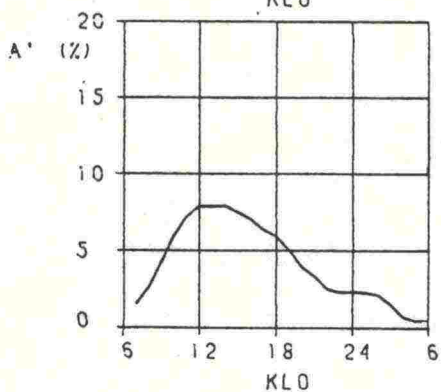
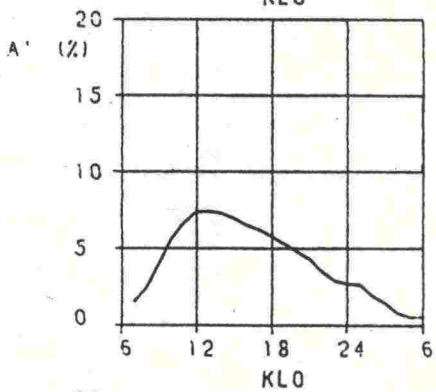
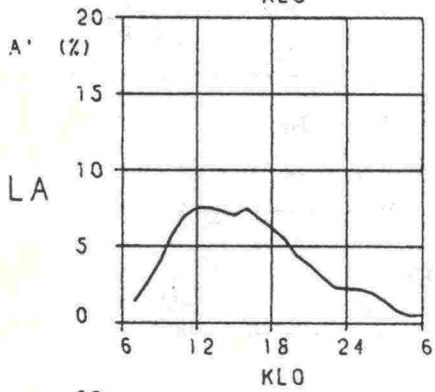
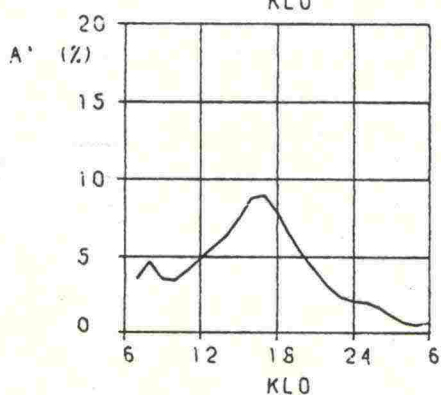
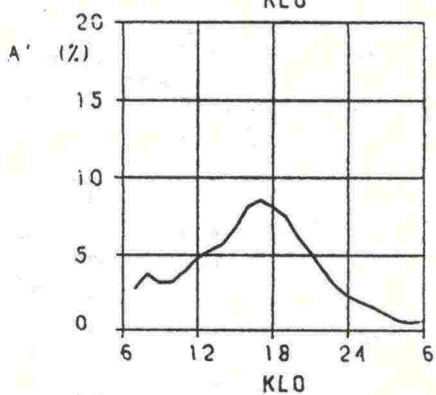
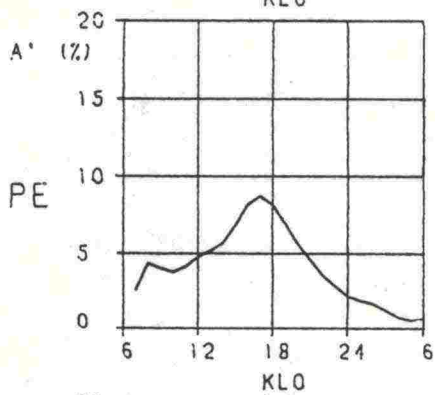
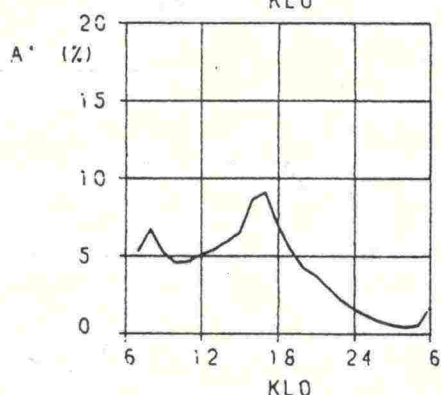
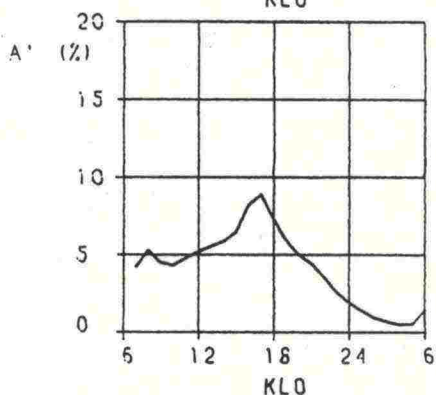
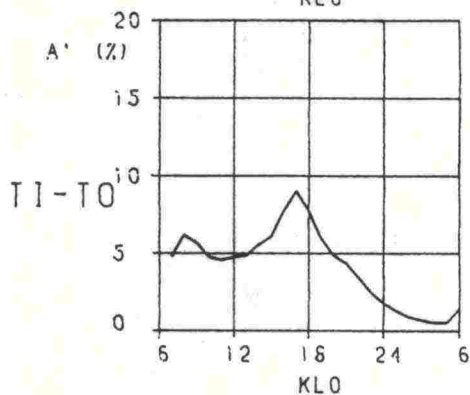
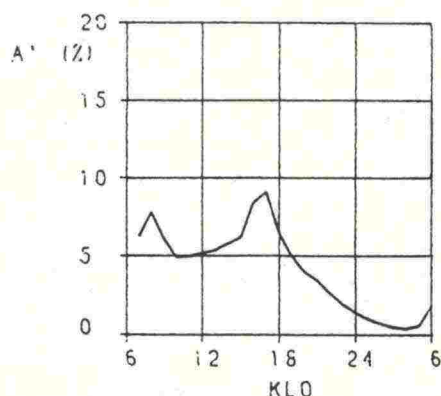
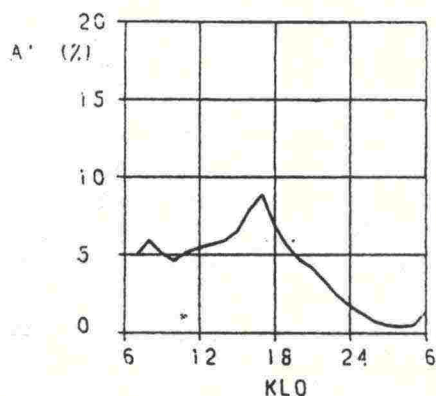
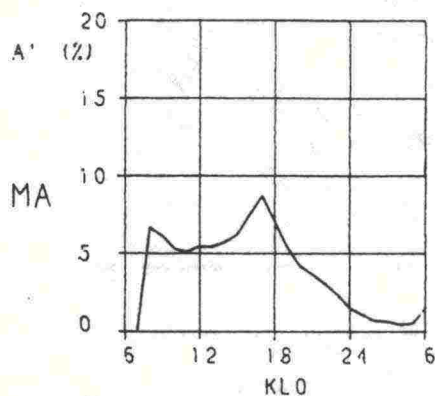




## HELMIKUU

## HEINAKUU

## LOKAKUU



913LIEVESTUORE

1987

VT9

TIEOSA 307 ETAISYYS 5.4 KM

KVL 4141

B' (SU/KESA) 1.28

KAVL 3728

KKVL 5856

D' 1.41

## ARKILIIKENTEEN KOOSTUMUS

HA 82 %

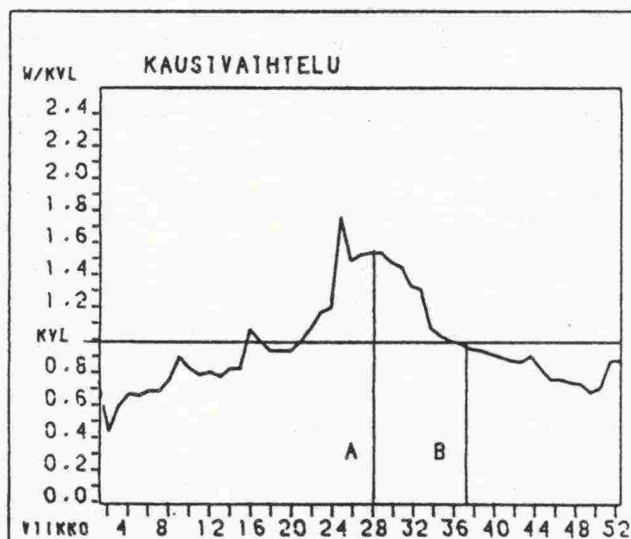
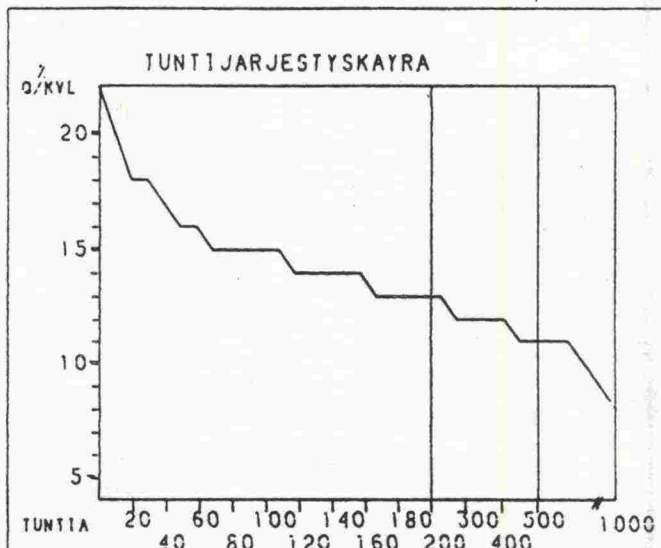
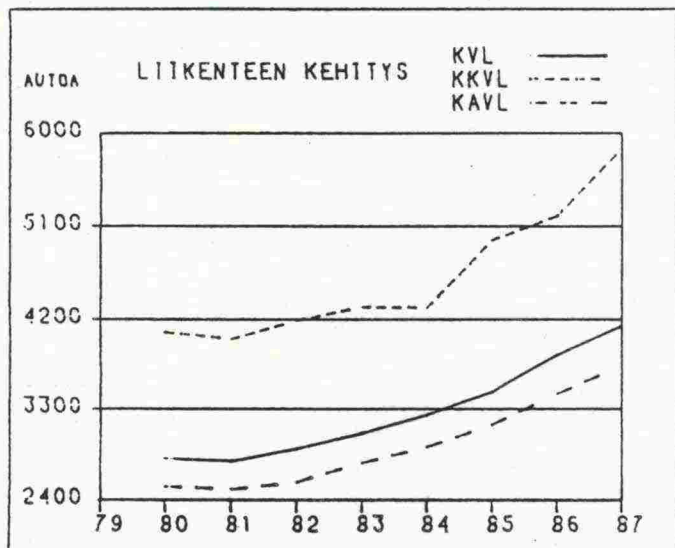
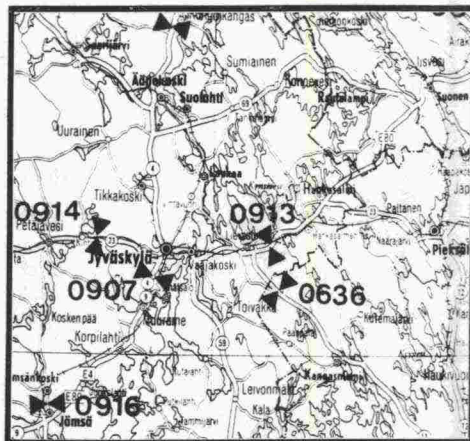
PA 7 %

LA 1 %

KAIP 4 %

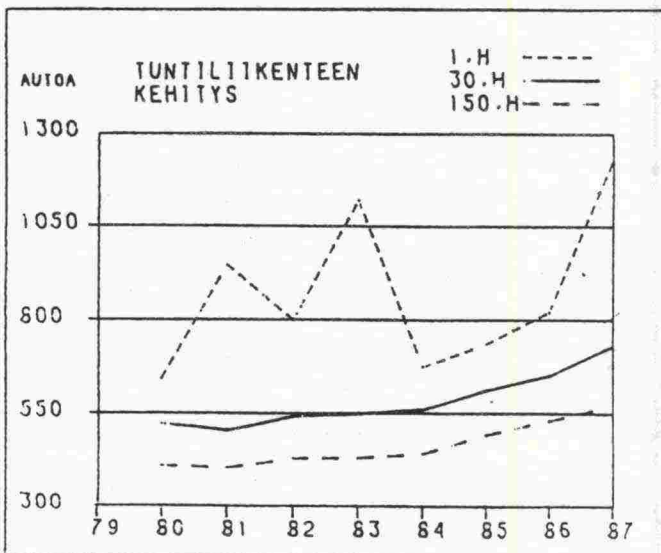
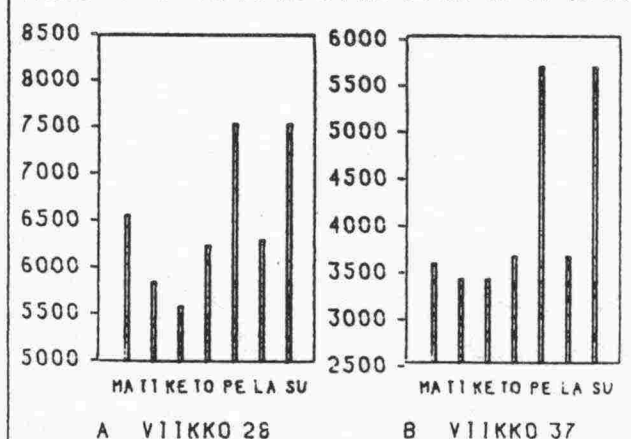
KAPP 1 %

KATP 5 %



H	O	PE-SU (+)	KERTYMA	HTK
1	1231	100	0.1	-
30	731	87	1.7	0.98
100	608	82	4.7	0.87
150	573	25	6.6	0.92
300	482	83	11.8	0.91
1000	337	71	30.2	0.79
5000	128	43	86.5	0.91

(+) MONTAKO % KO-ENSIMMAISISTA TUNNEISTA OSUU PE-SU-LLE



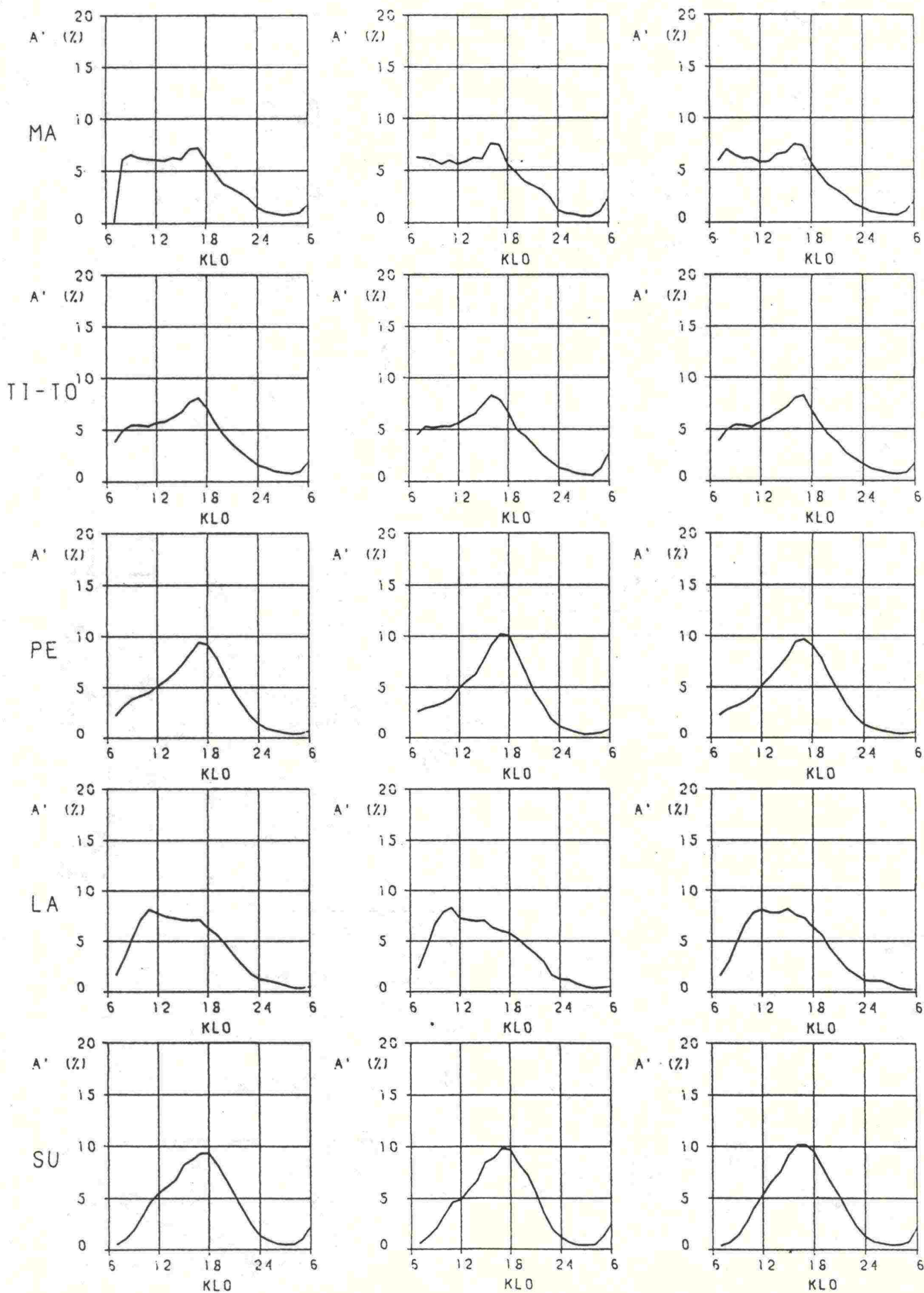


## TUNTIVAIHTELUT

HELMIKUU

HEINAKUU

LOKAKUU



914VESANKA

1987

VI23

TIEOSA 229 ETAISYYS 4.4 KM

KVL 4045

B' (SU/KESA) 1.07

KAVL 3892

KKVL 5263

D' 1.30

## ARKILIIKENTEN KOOSTUMUS

HA 82 %

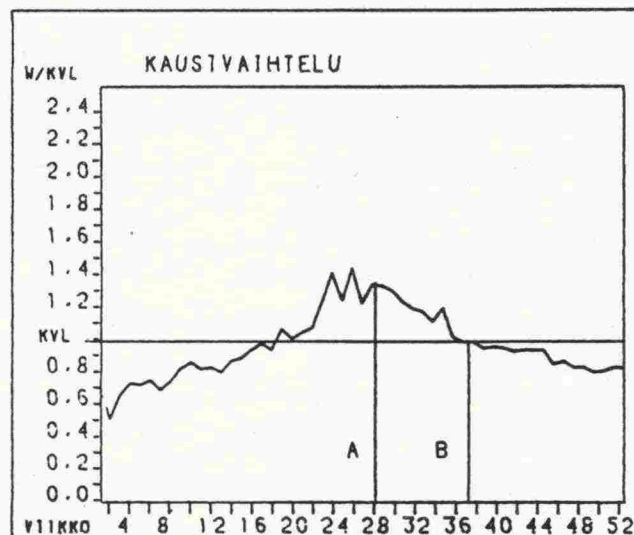
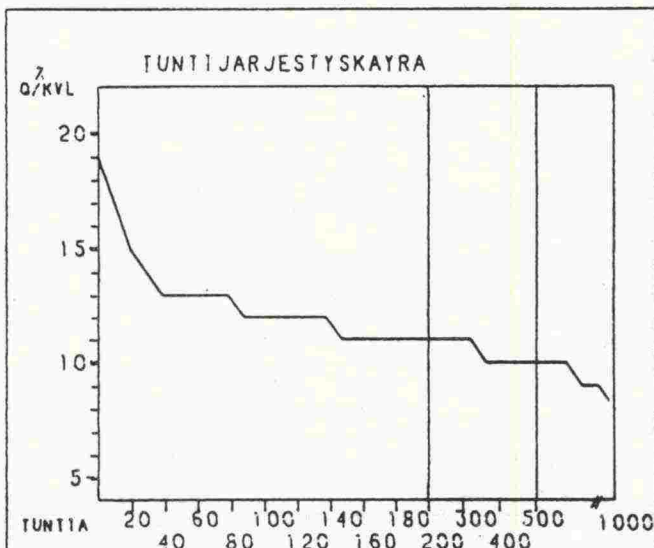
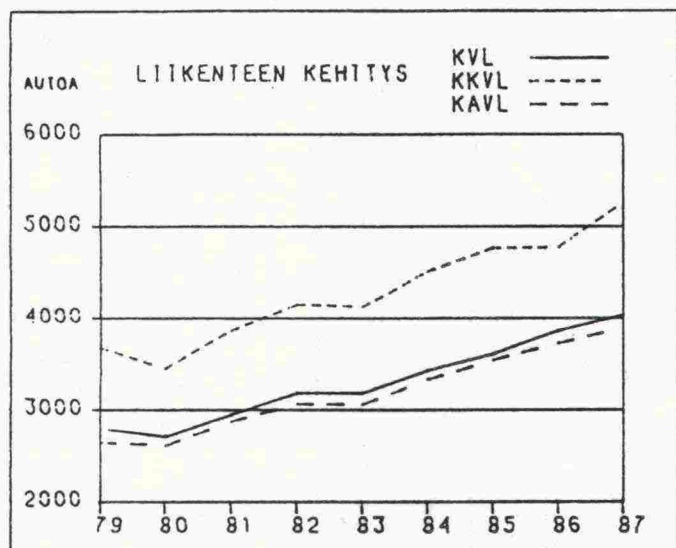
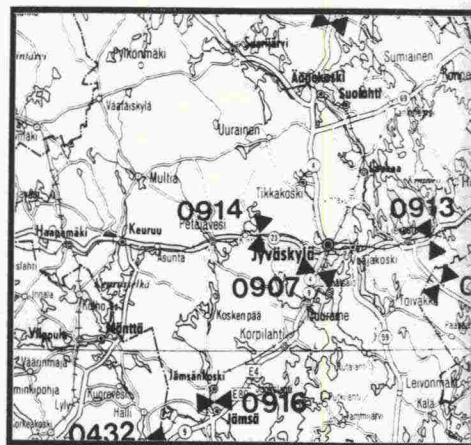
PA 6 %

LA 2 %

KAIP 5 %

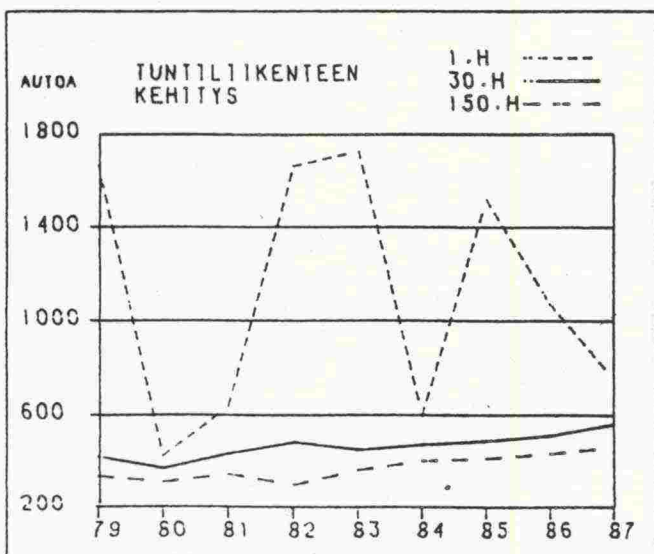
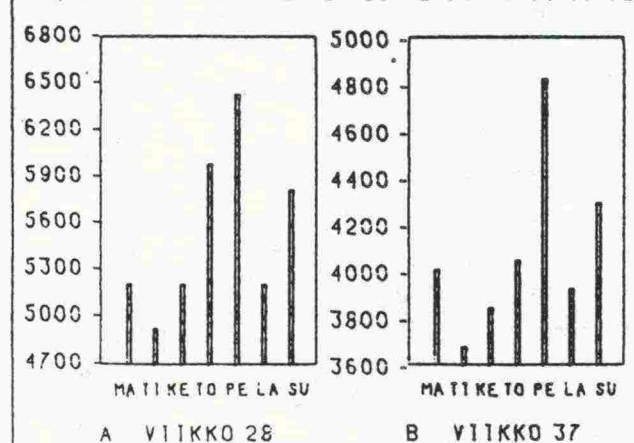
KAPP - %

KATP 5 %



H	Q	PE-SU (*)	KERTYMA	HTK
1	753	100	0.1	0.93
30	565	93	1.3	0.64
100	491	91	3.6	0.94
150	465	87	5.4	0.91
300	415	73	9.8	0.62
1000	327	58	27.3	-
5000	136	41	88.2	-

(\*) MONTAKO &amp; KO. ENSIMMAISISTA TUNNEISTA OSUU PE-SU:LLE



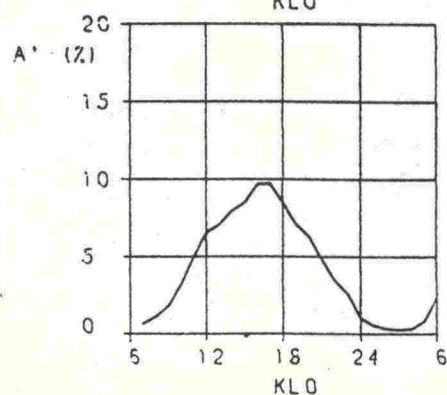
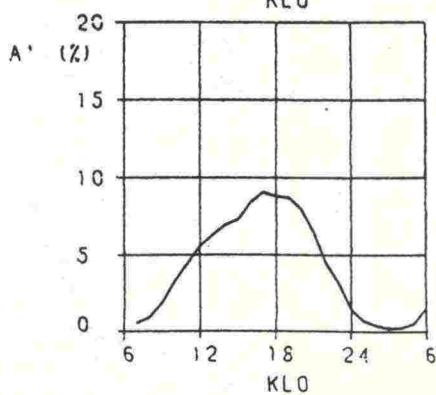
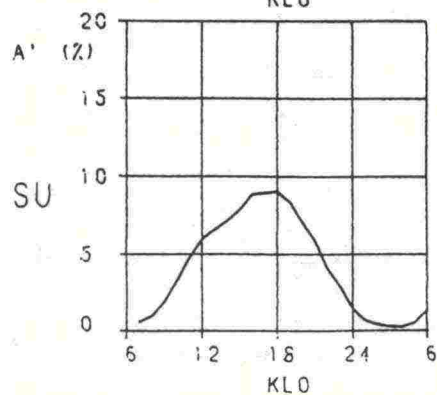
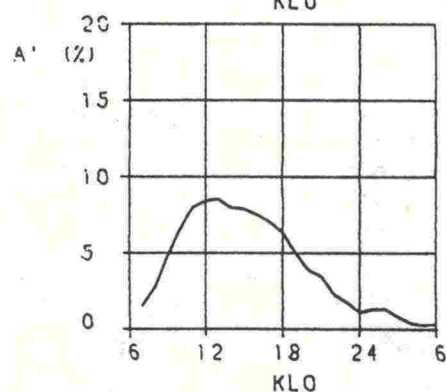
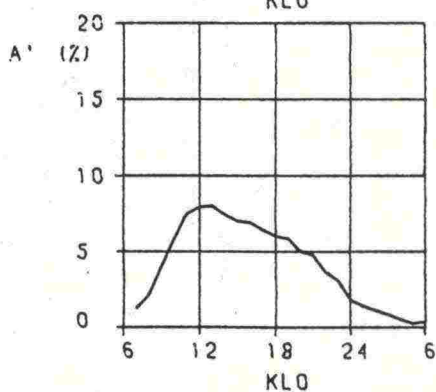
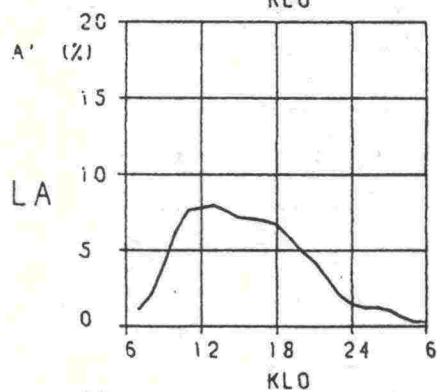
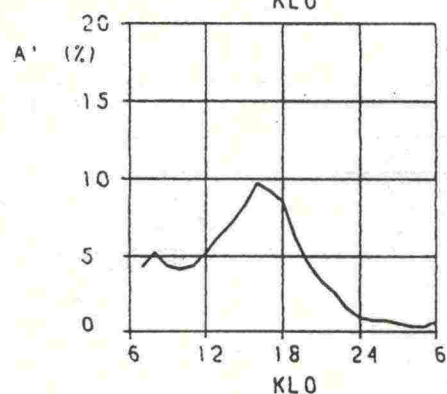
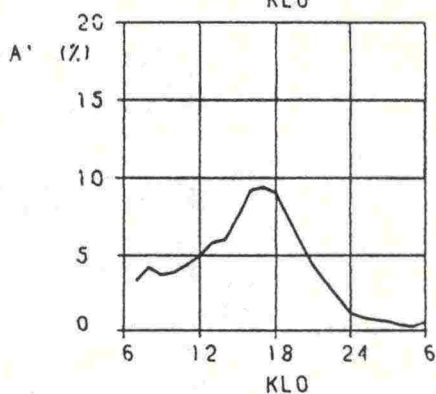
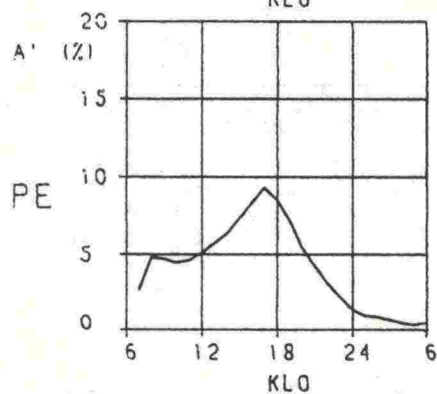
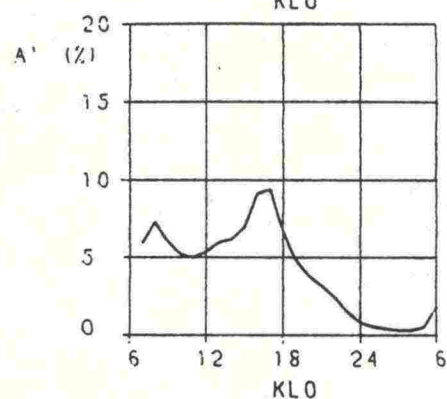
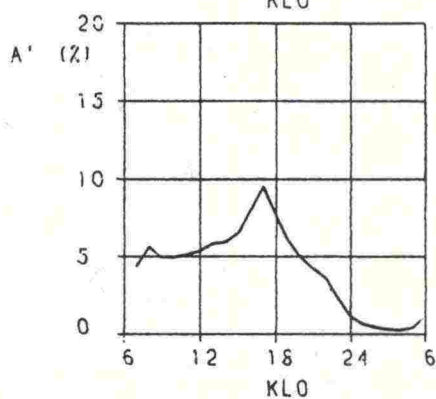
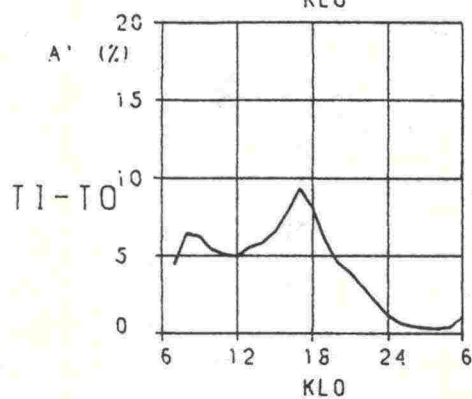
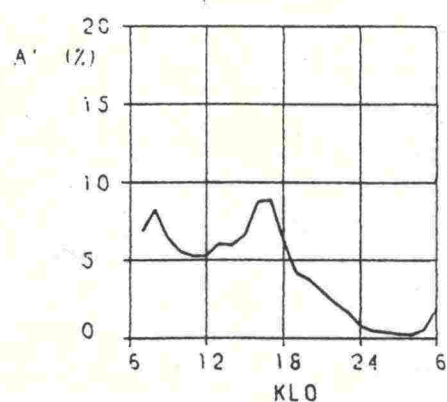
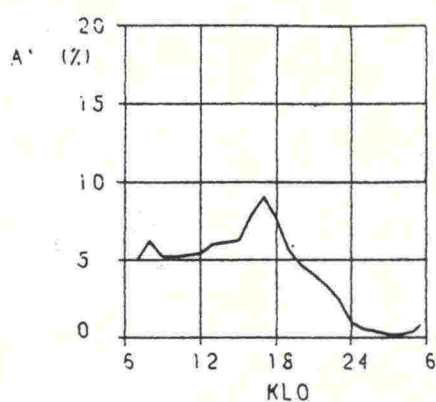
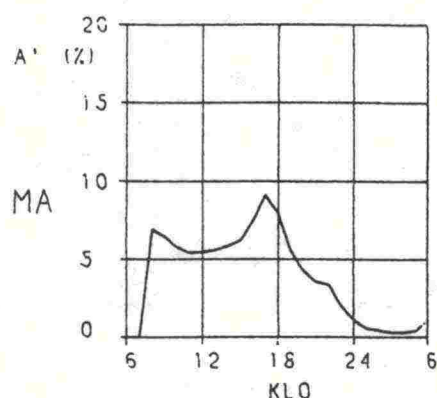


## TUNTI VAIHTELUT

HELMIKUU

HEINAKUU

LOKAKUU



## 916 JÄMSÄNKOSKI

MT604 TIEOSA 2 ETAISYYS 3.2 KM

1987

KVL 6078

B' (SU/KESA) 0.76

KAVL 6091

KKVL 6334

D' 1.04

## ARKILIIKENTEEN KOOSTUMUS

HA 86 %

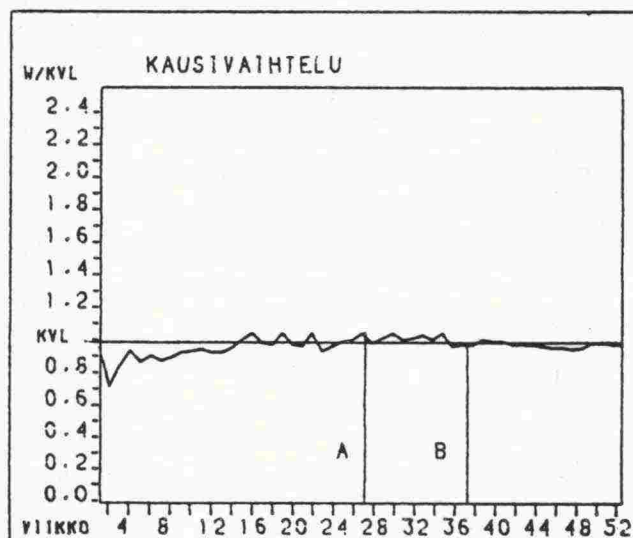
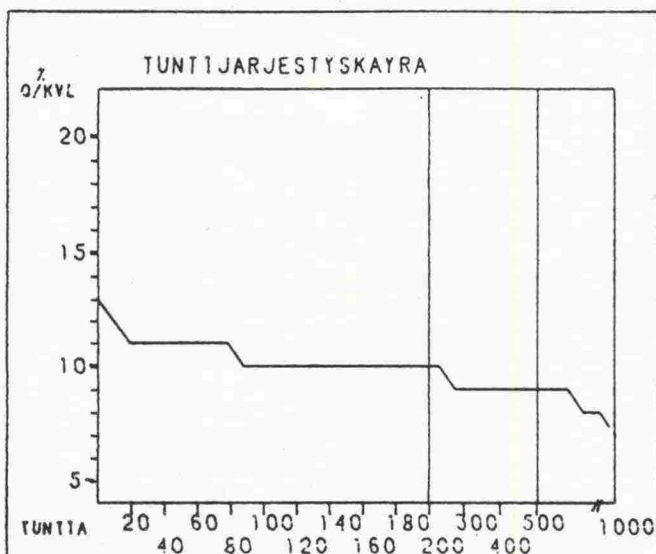
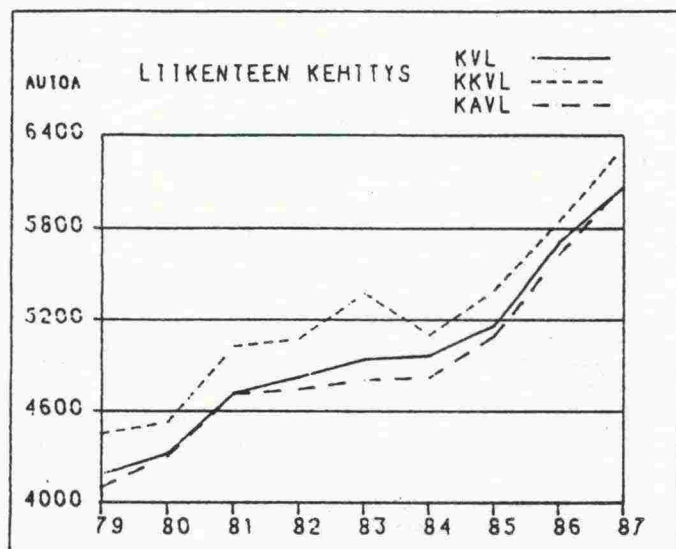
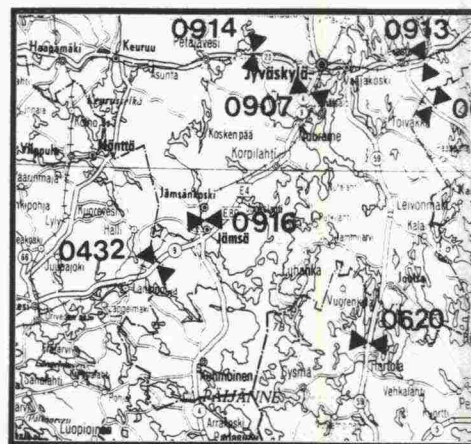
PA 7 %

LA 2 %

KAIP 3 %

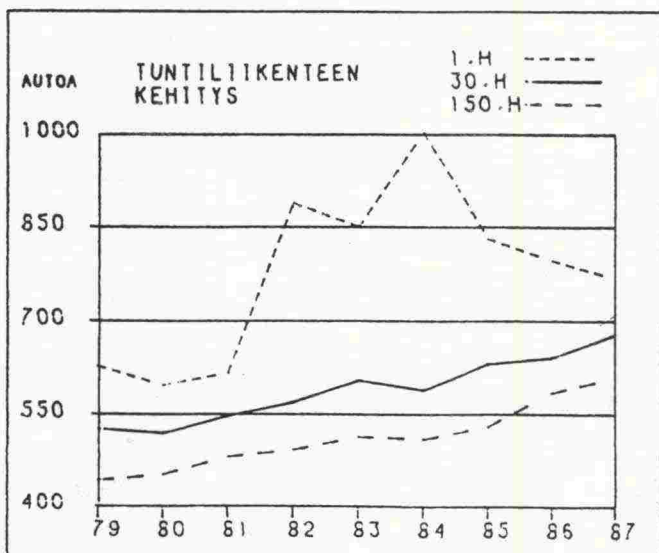
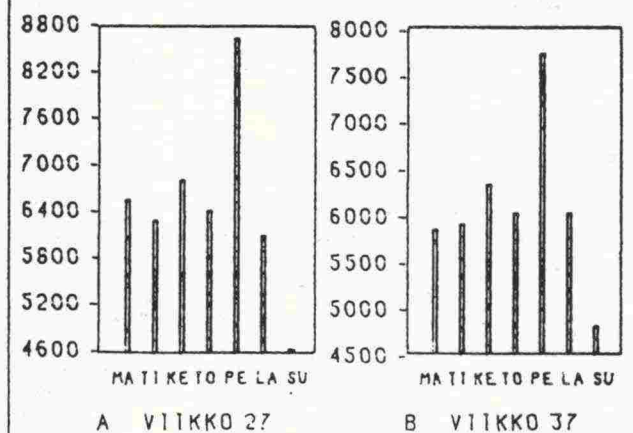
KAPP - %

KATP 2 %



H	Q	PE-SU (KERTYMA)	HTK
1	769	100	0.1
30	679	73	1.0
100	633	61	3.0
150	610	52	4.4
300	562	47	8.4
1000	449	50	24.0
5000	241	40	85.2

(\*) MONTAKO &amp; KO-ENSIMMAISISTA TUNNEISTA OSUU PE-SU-LLE



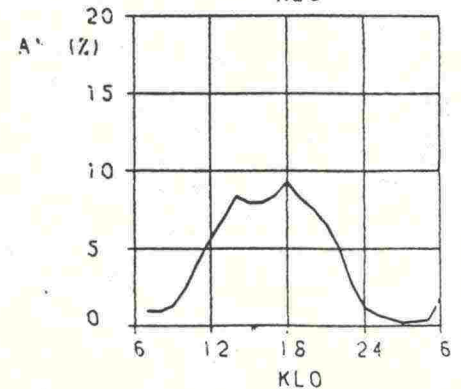
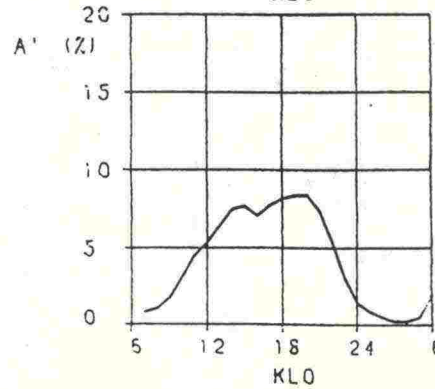
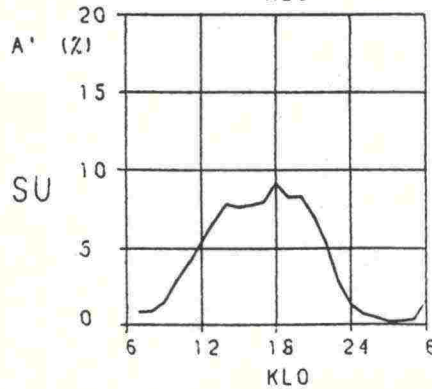
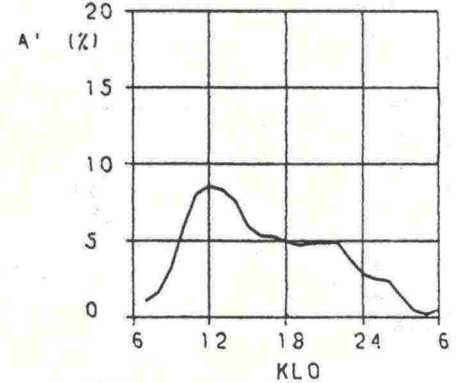
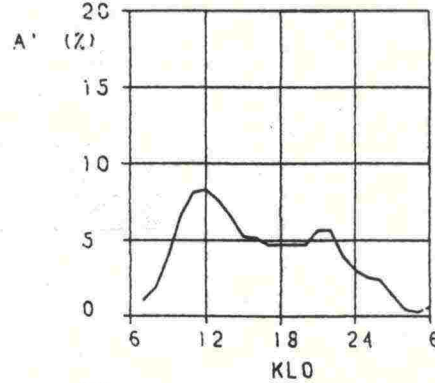
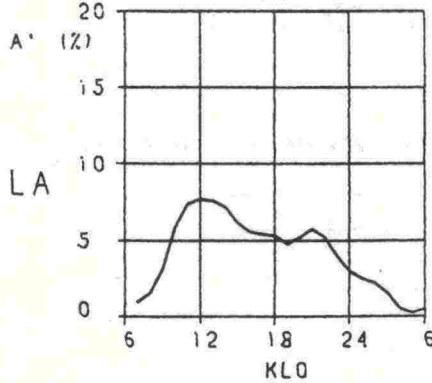
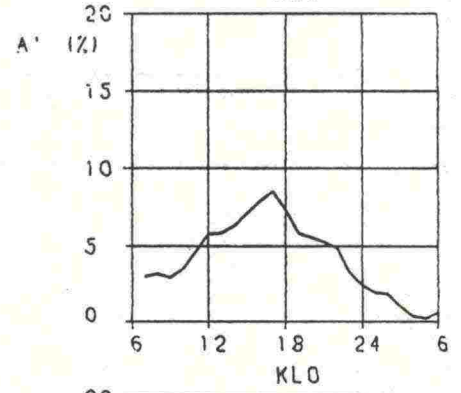
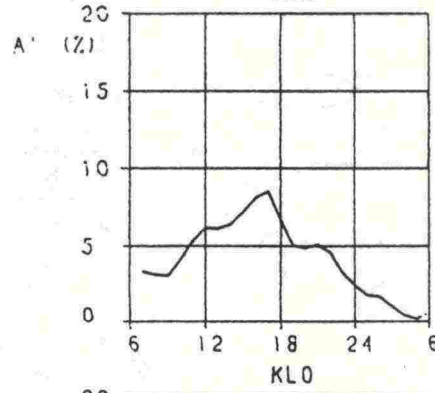
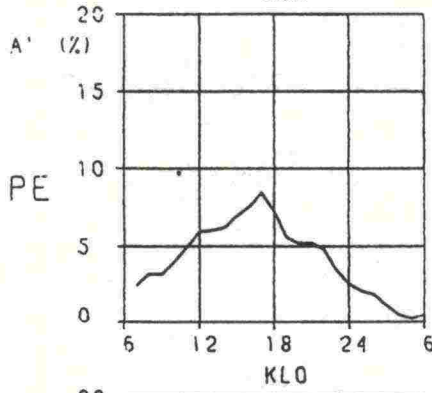
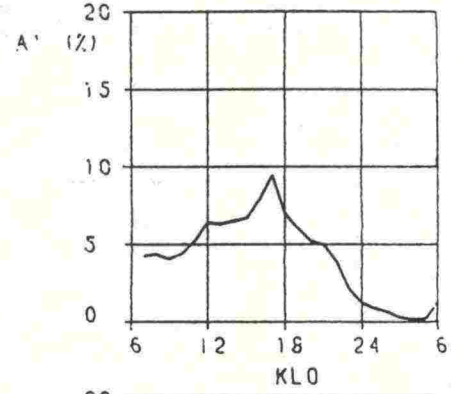
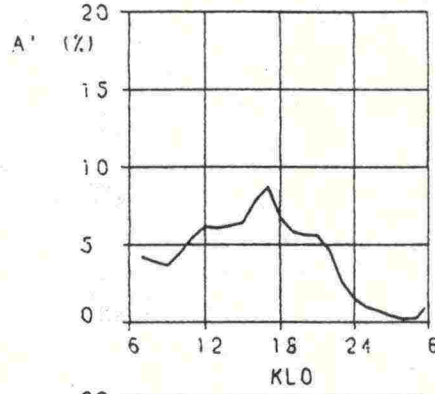
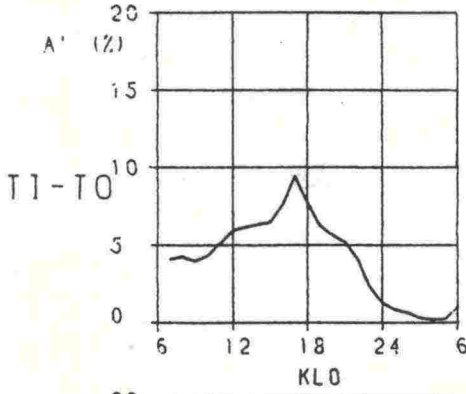
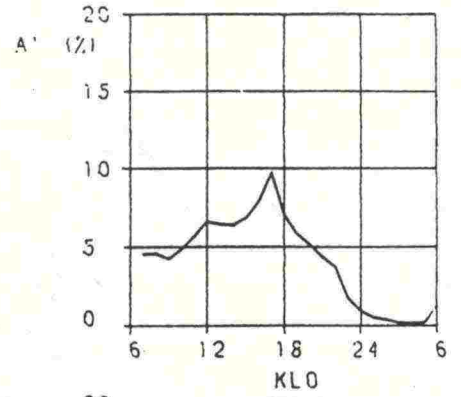
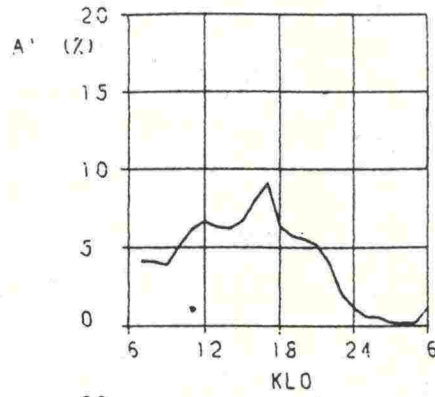
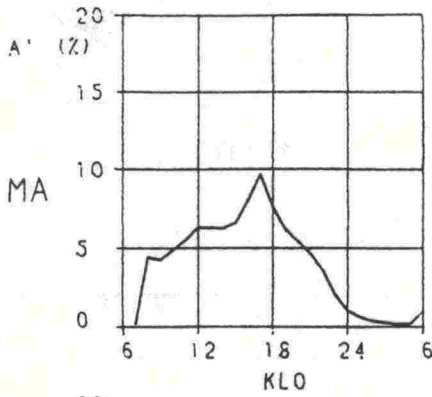


# TUNTIVAIHTELUT

HELMIKUU

HEINAKUU

LOKAKUU

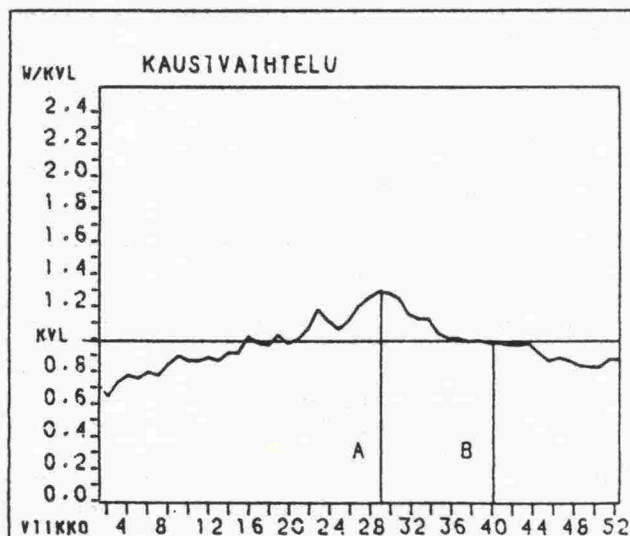
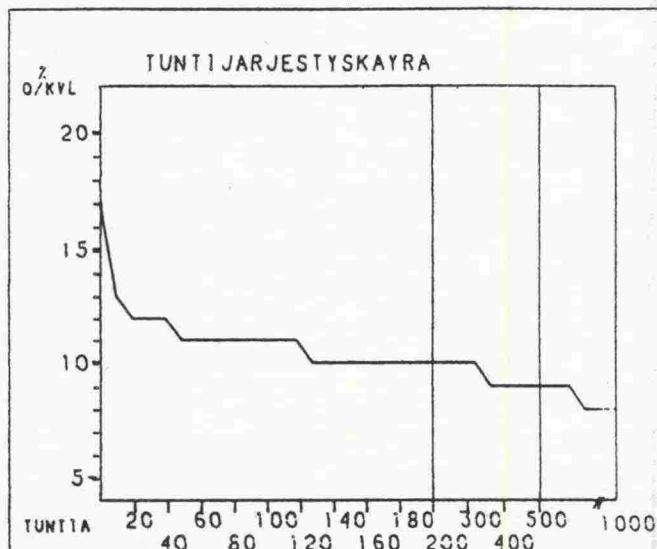
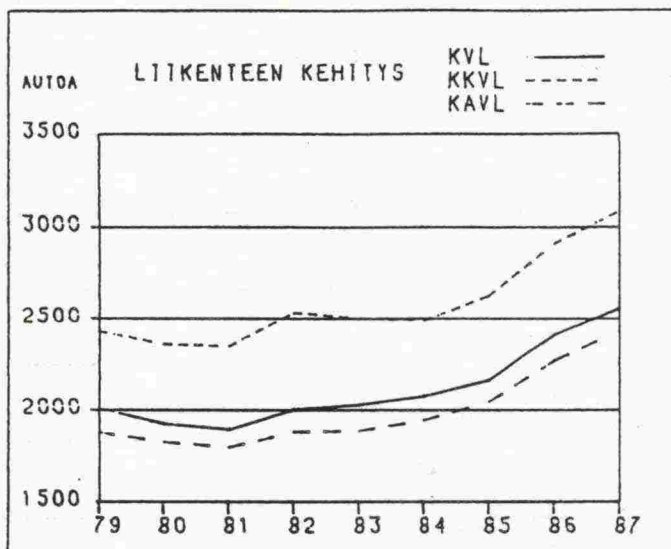
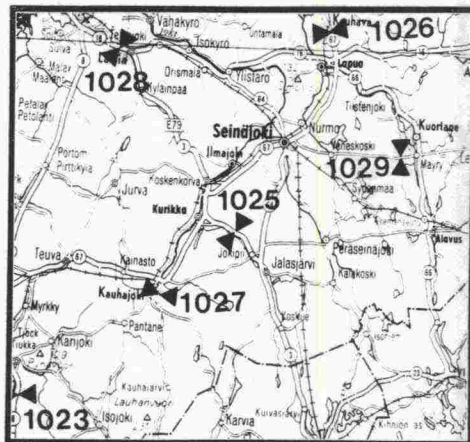


1025KURIKKA/LUOPA 1987  
VT3 TIEOSA 232 ETAISYYS 0.5 KM

KVL 2565 B' (SU/KESA) 1.09  
KAVL 2431  
KKVL 3089 D' 1.20

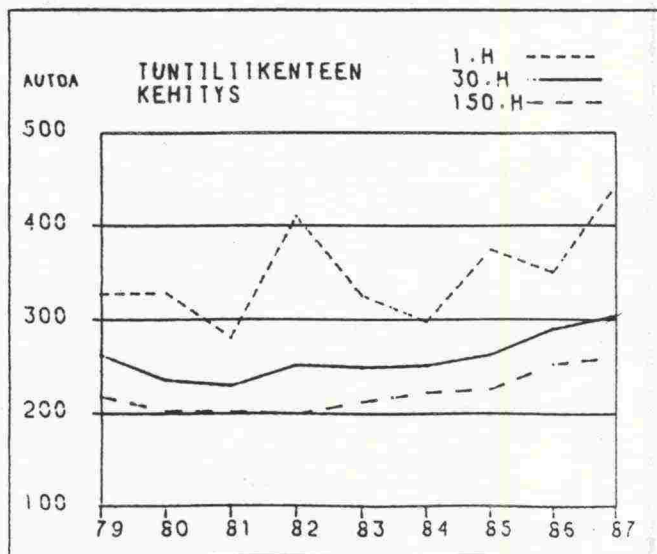
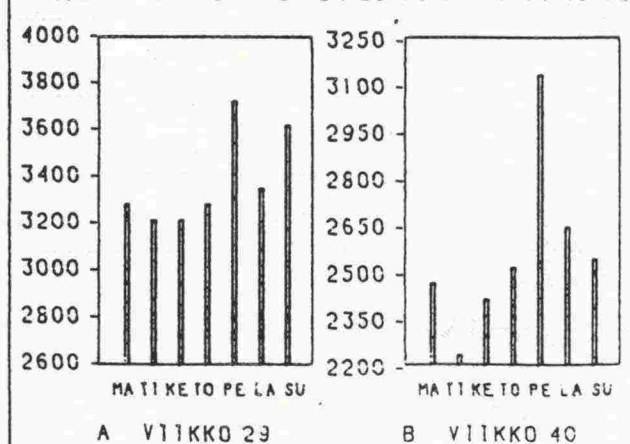
### ARKILIIKENTEN KOOSTUMUS

HA 81 % PA 7 %  
LA 1 % KAIP 5 %  
KAPP 1 % KATP 5 %



H	Q	PE-SU (+KERTYMA)	HTK
1	444	100	0.1
30	305	100	1.0
100	275	98	3.2
150	261	92	4.6
300	241	82	8.6
1000	195	61	24.7
5000	99	42	84.6

(\*) MONTAKO % KO-ENSIMMAISISTA TUNNEISTA OSUUS PE-SU:LLE



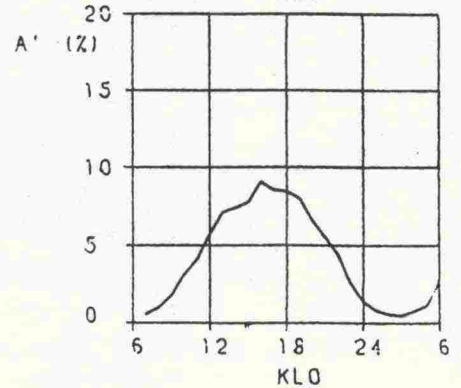
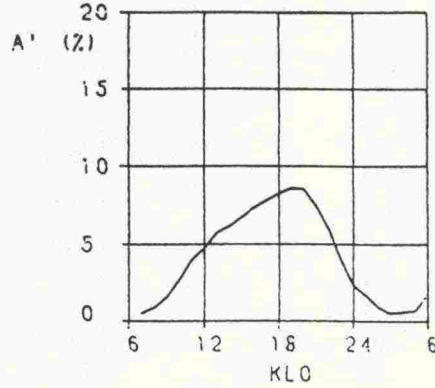
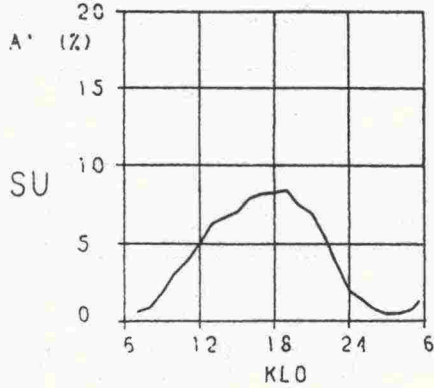
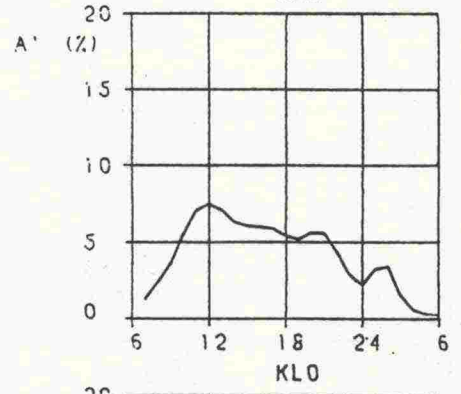
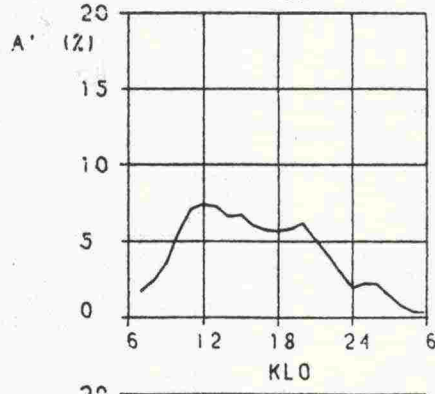
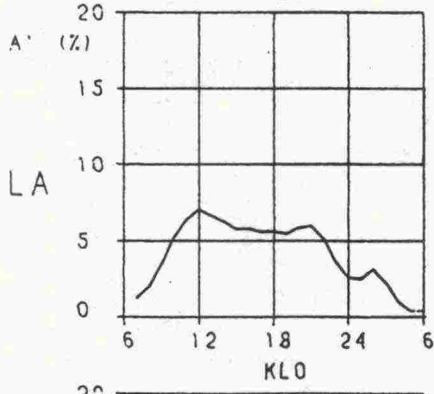
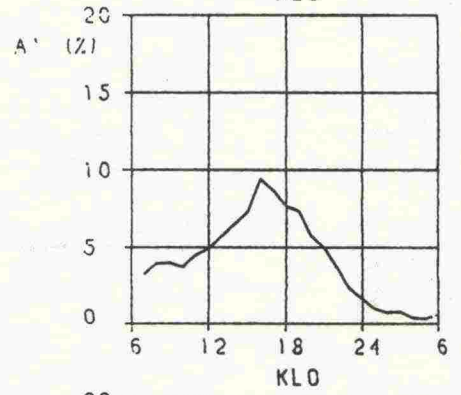
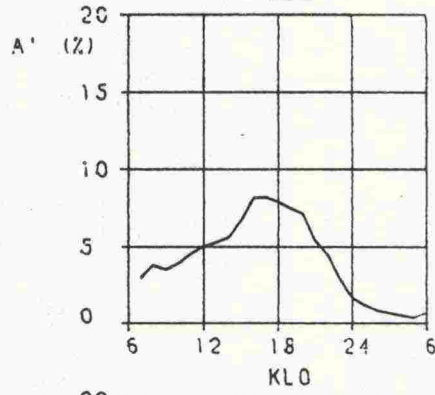
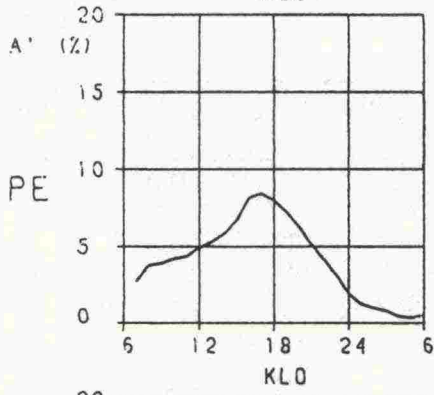
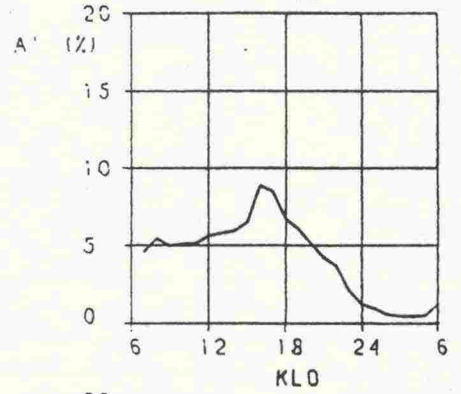
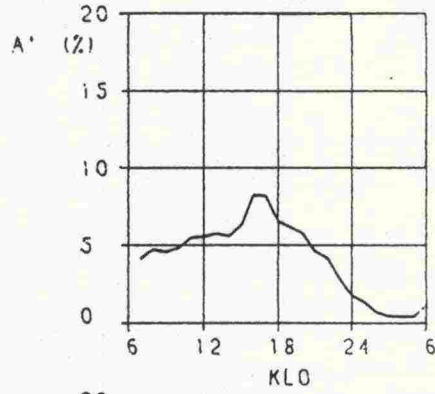
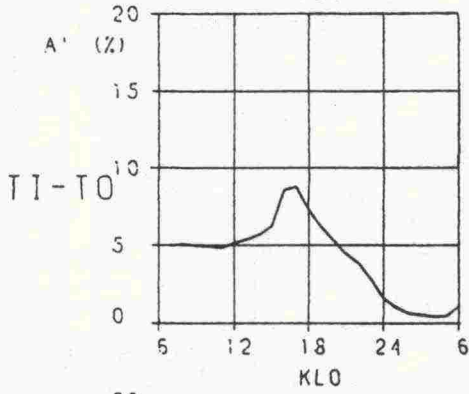
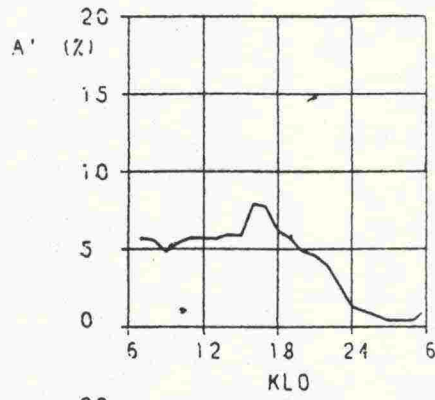
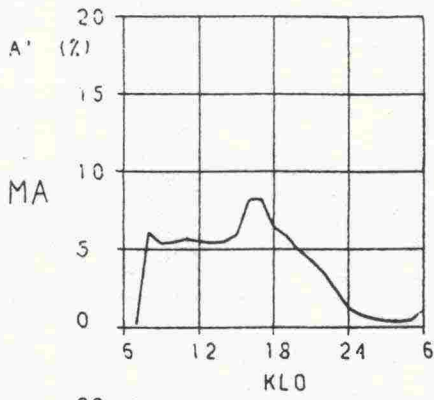


# TUNTIVAIHTELUT

HELMIKUU

HEINAKUU

LOKAKUU

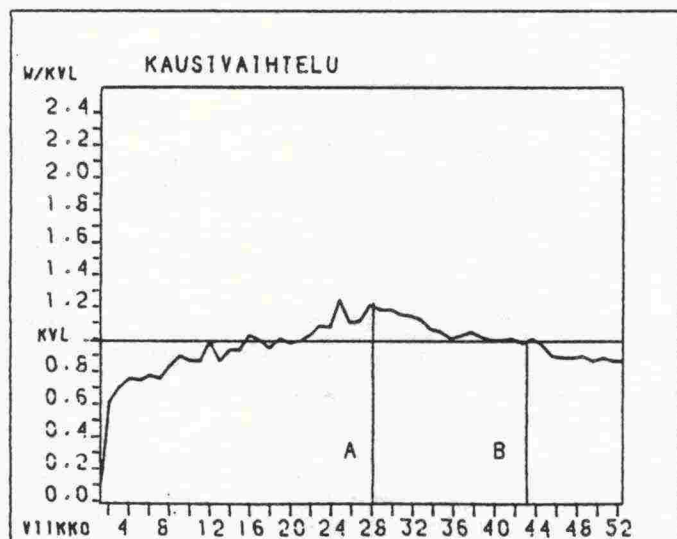
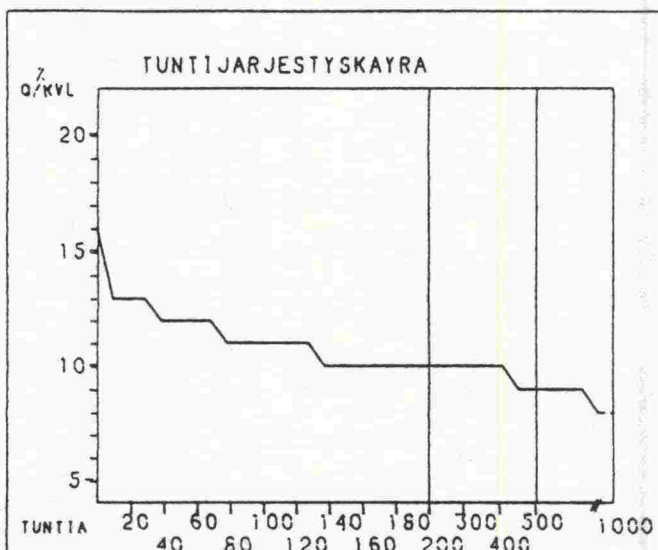
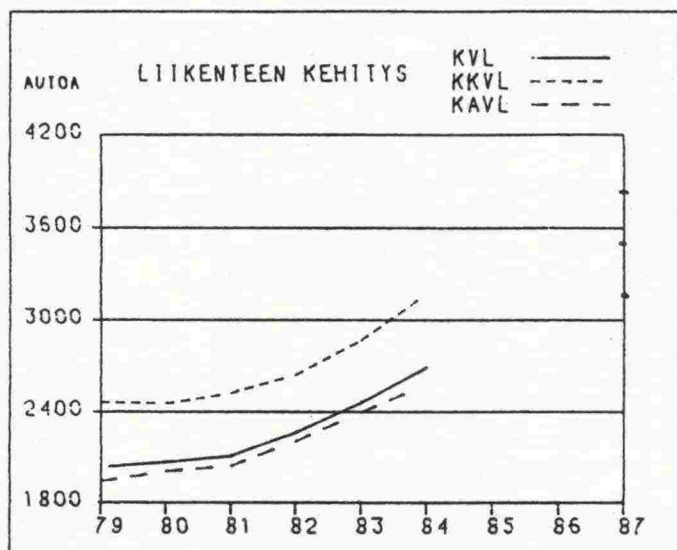
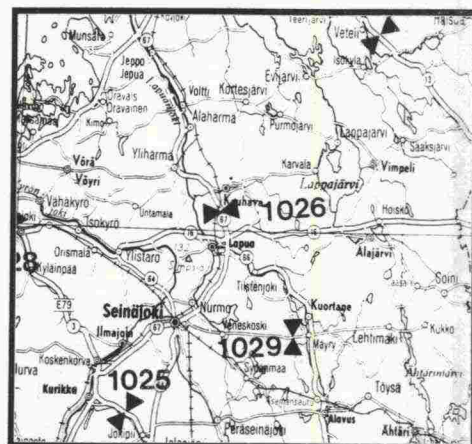


1026KAUHAVA/HEMMINKI 1987  
KT67 TIEOSA 39 ETAISYYS 6.0KM

KVL 3506 B' (SU/KESA) 1.00  
KAVL 3412  
KKVL 4087 D' 1.16

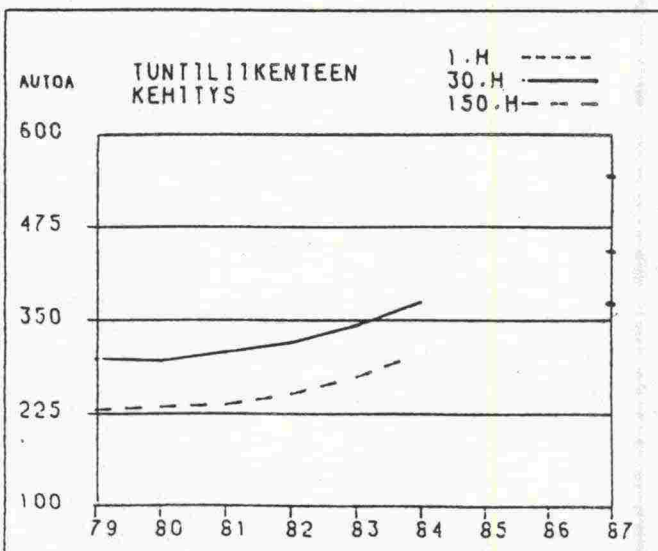
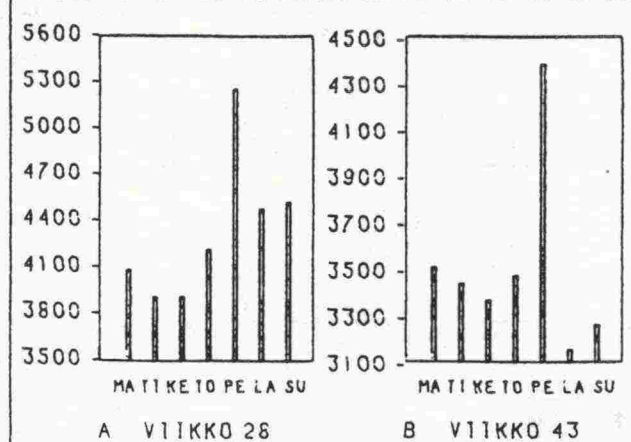
### ARKILIIKENTEEN KOOSTUMUS

HA 81 % PA 6 %  
LA 0 % KAIP 5 %  
KAPP 1 % KATP 7 %



H	Q	PE-SU (KERTYMA)	HTK
1	561	100	0.1
30	440	100	1.1
100	384	88	3.3
150	364	79	4.8
300	335	66	8.9
1000	266	57	25.1
5000	128	42	85.3

(\*) MONTAKO % KO-ENSIMMAISISTA TUNNEISTA OSUV PE-SU LLE



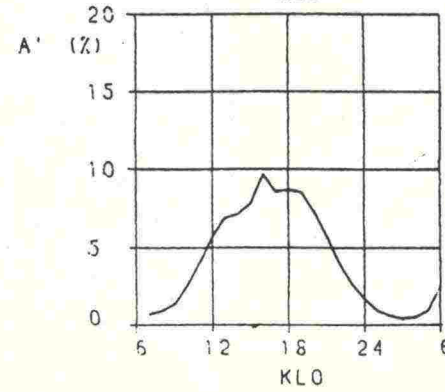
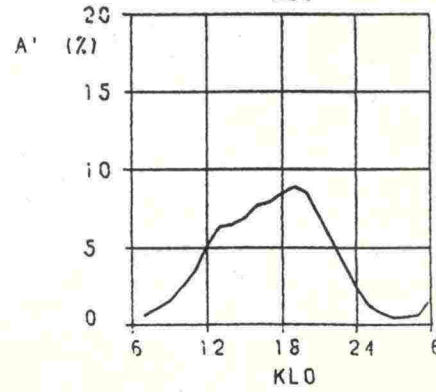
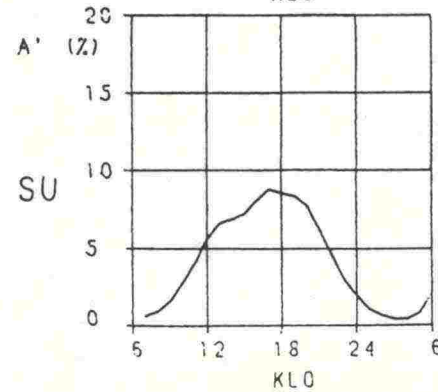
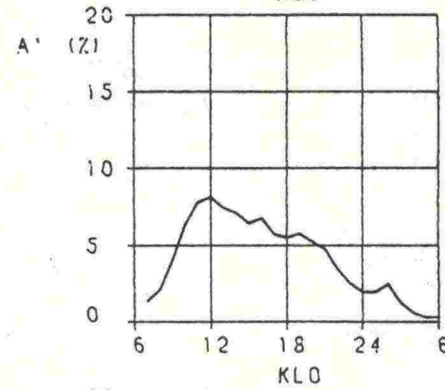
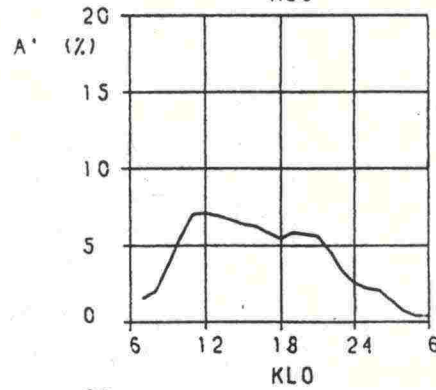
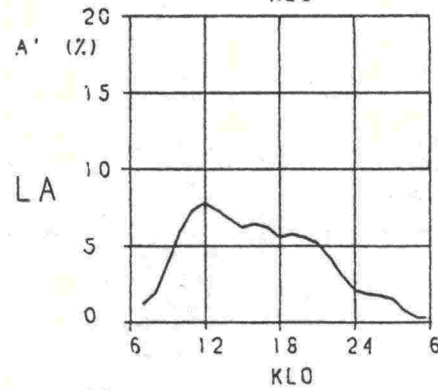
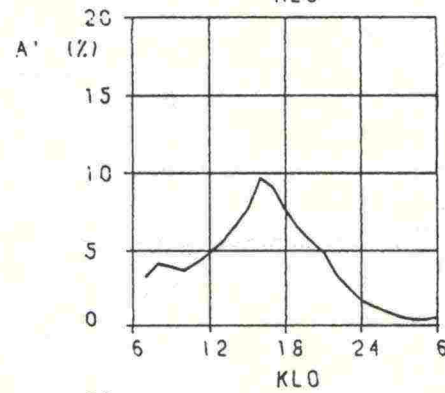
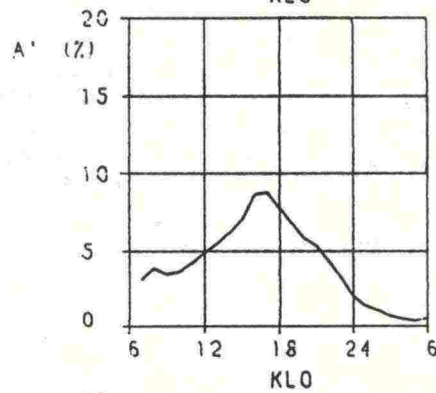
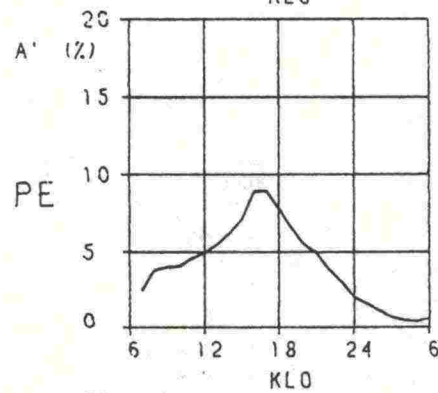
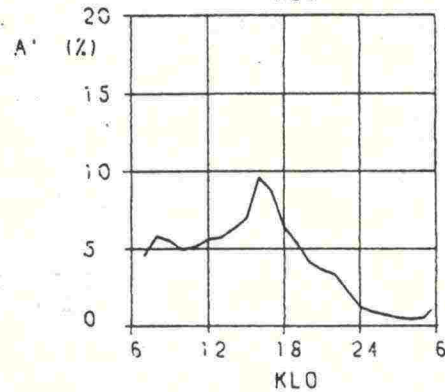
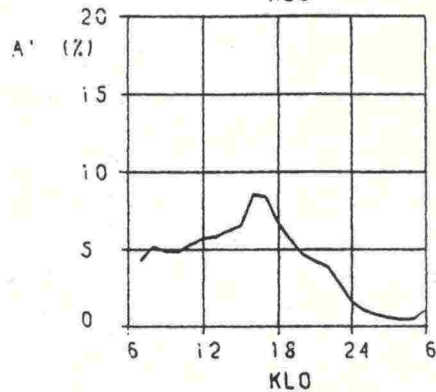
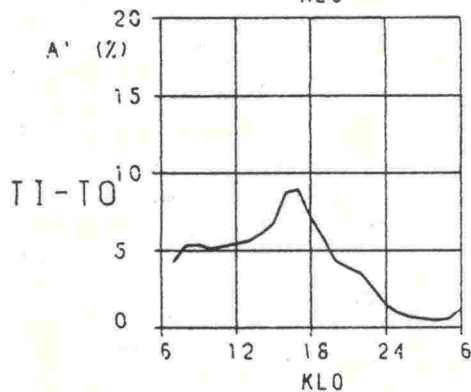
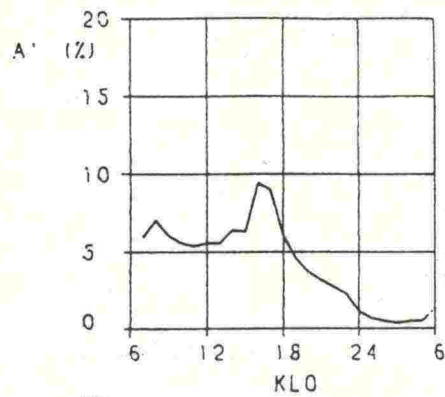
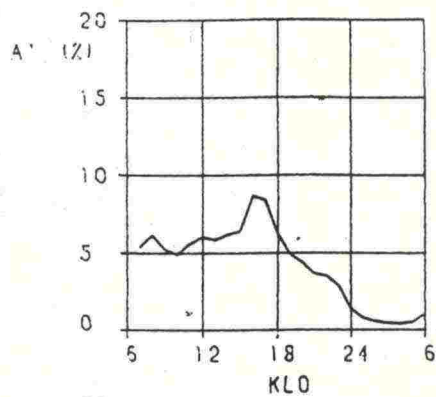
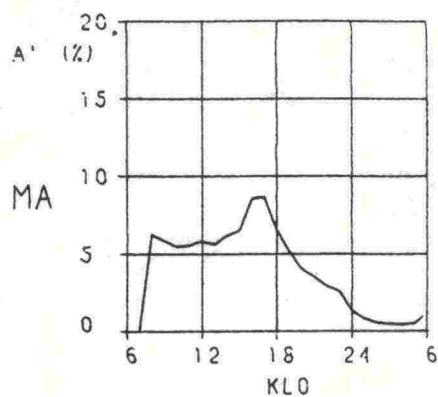


## TUNTI VAIHTELUT

HELMIKUU

HEINAKUU

LOKAKUU



1027KAUHAJOKI

1987

MT663 TIEOSA 12 ETAISYYS 0.7 KM

KVL 9832 B' (SU/KESA) 0.76

KAVL 9558

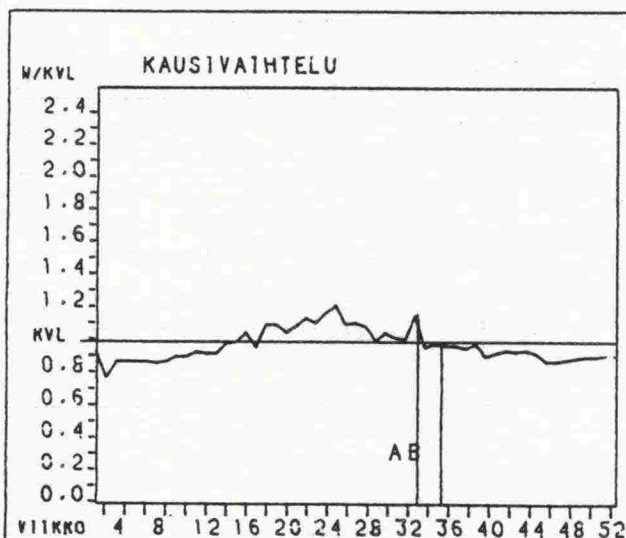
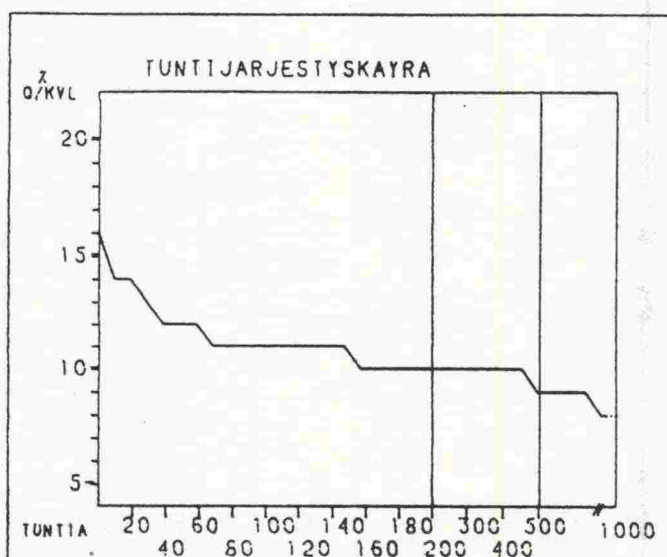
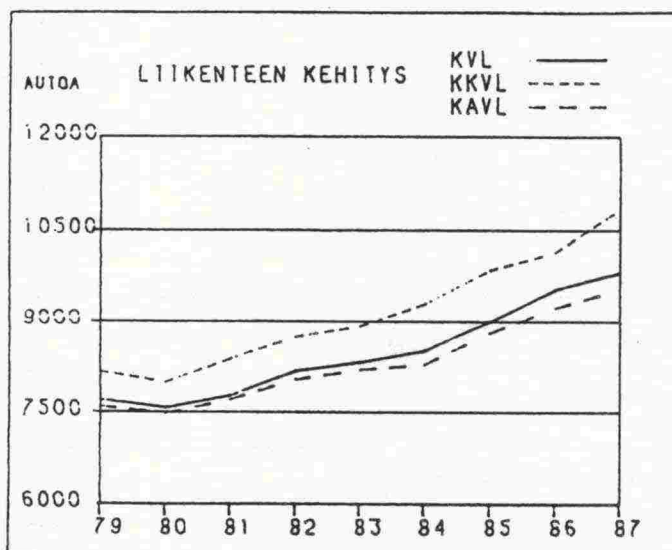
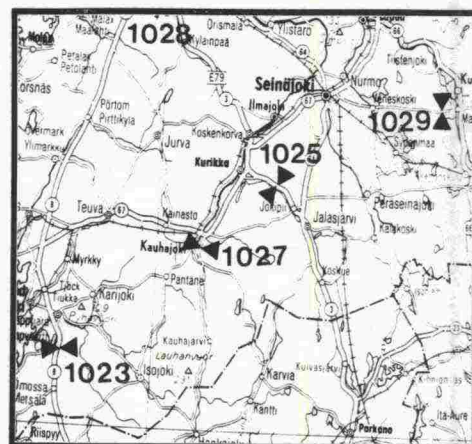
KKVL 10855 D' 1.10

## ARKILIIKENTEEN KOOSTUMUS

HA 86 % PA 9 %

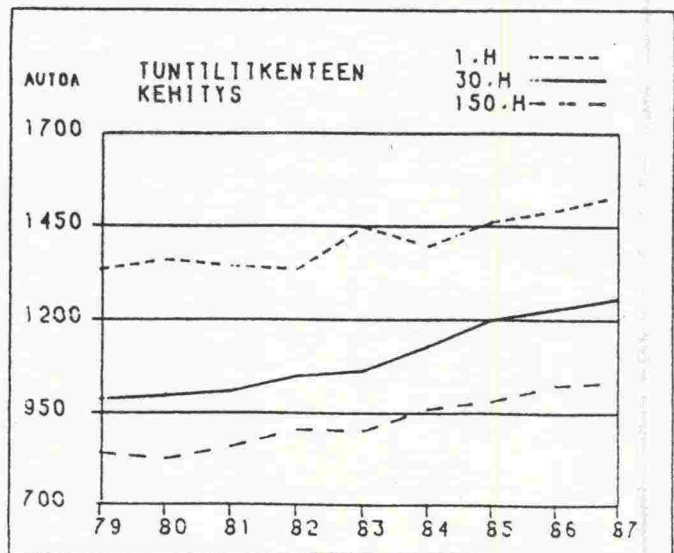
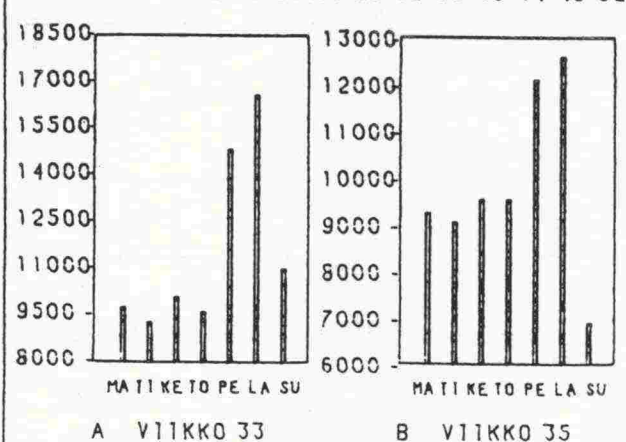
LA 1 % KAIP 3 %

KAPP - % KATP 1 %



H	O	PE-SU (*) KERTYMA	HTK
1	1534	100	0.1
30	1256	90	1.1
100	1087	85	3.4
150	1035	81	4.9
300	943	69	9.0
1000	768	57	25.5
5000	378	42	87.6

(\*) MONTAKO X KO-ENSIMMAISISTA TUNNEISTA OSUUS PE-SU-ALLE



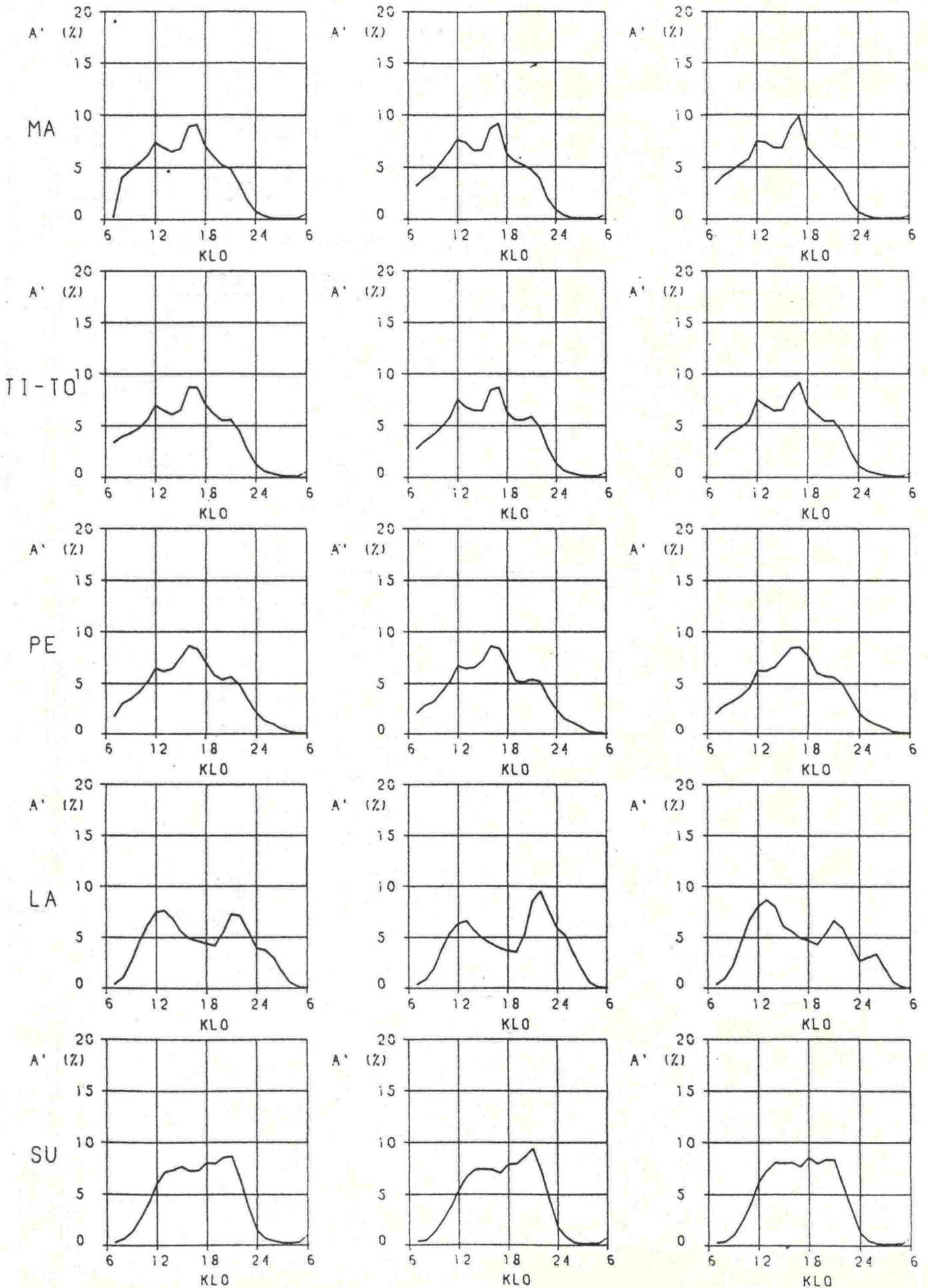


## TUNTIVAIHTELUT

HELMIKUU

HEINAKUU

LOKAKUU



1028MUSTASAARI

1987

VT3

TIEOSA 248 ETAISYYS 0.0KM

KVL 5447

B' (SU/KESA) 0.92

KAVL 5571

KKVL 6141

D' 1.12

## ARKILIIKENTEEN KOOSTUMUS

HA 83 %

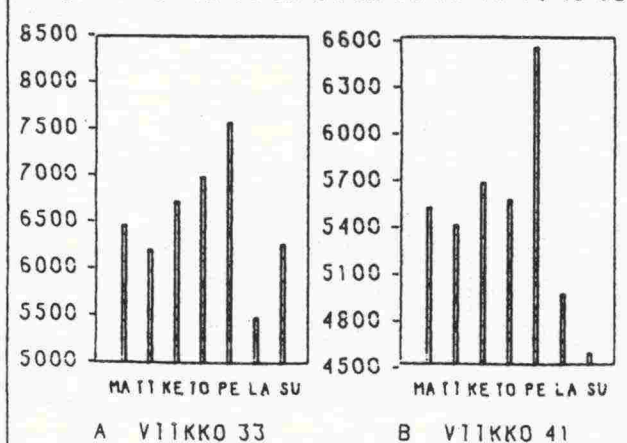
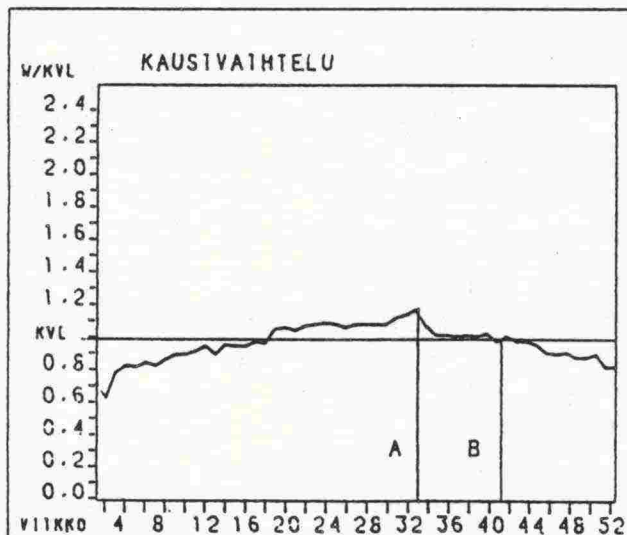
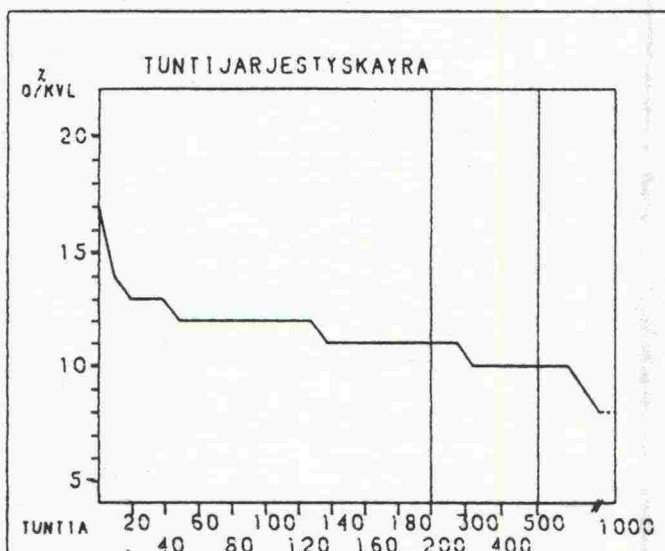
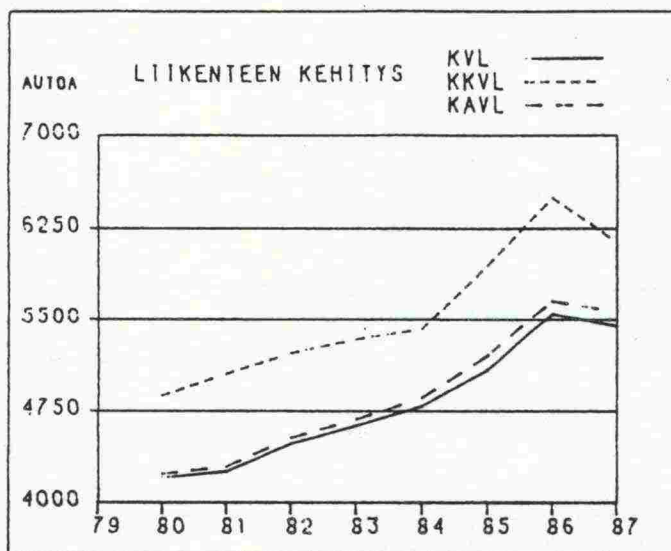
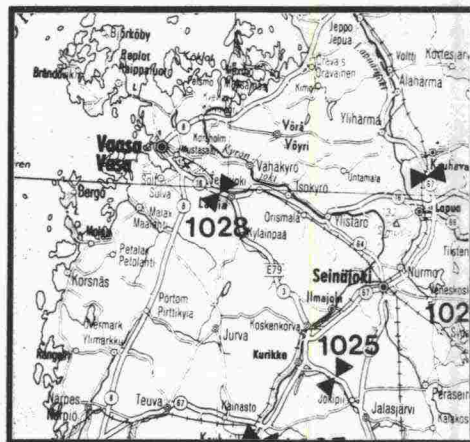
PA 7 %

LA 1 %

KAIP 4 %

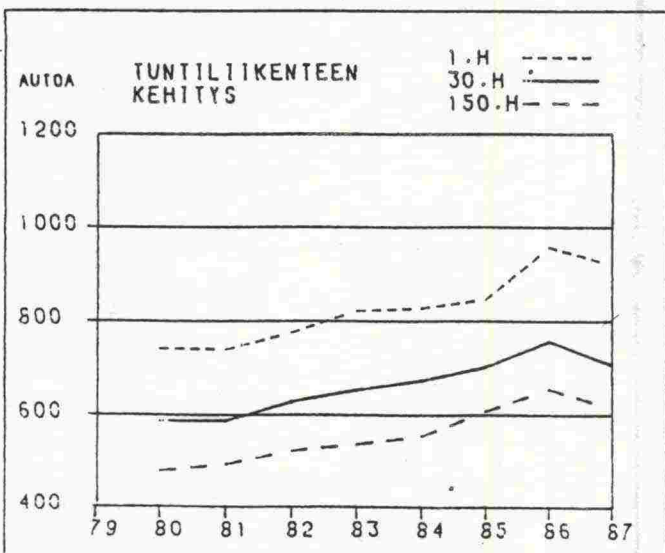
KAPP 1 %

KATP 4 %



H	Q	PE-SU (•) KERTYMA	HTK
1	921	100	0.1
30	707	77	1.1
100	645	42	3.5
150	616	36	5.1
300	550	33	9.5
1000	429	34	26.4
5000	187	41	87.1

(•) MONTAKO Z KO-ENSIMMAISISTA TUNNEISTA OSUUS PE-SU: LLE



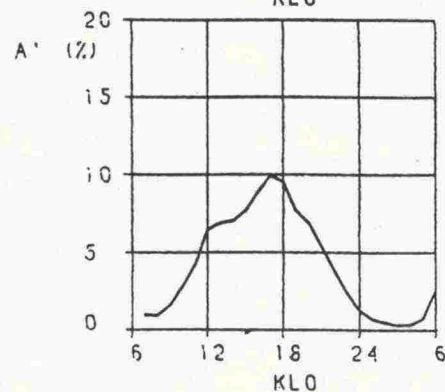
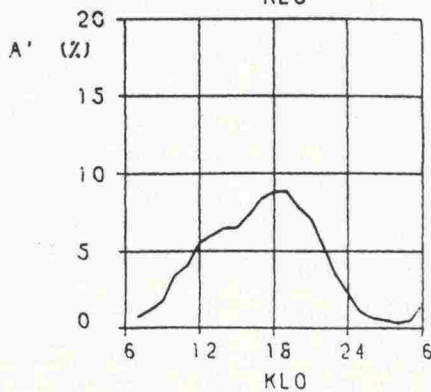
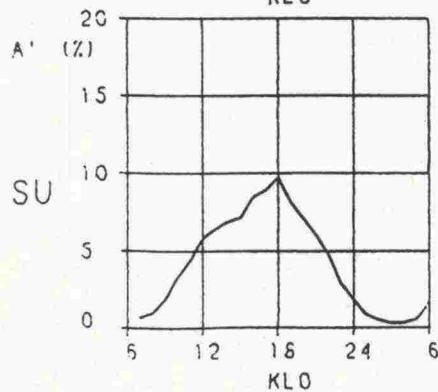
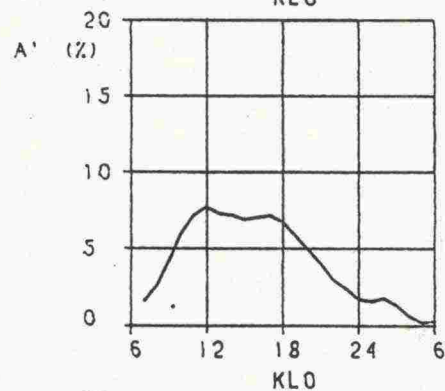
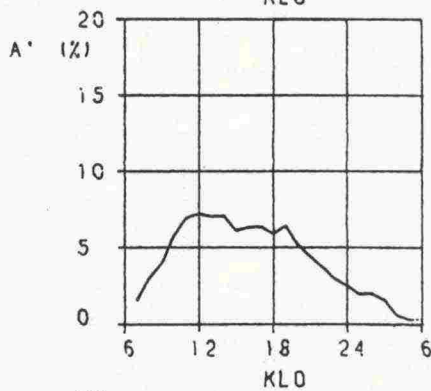
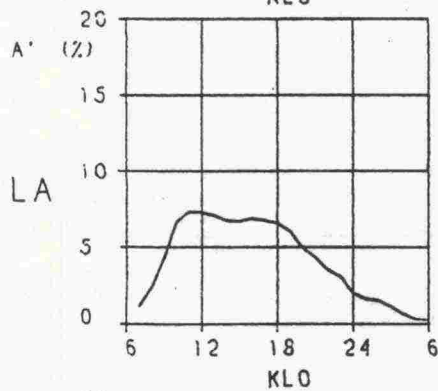
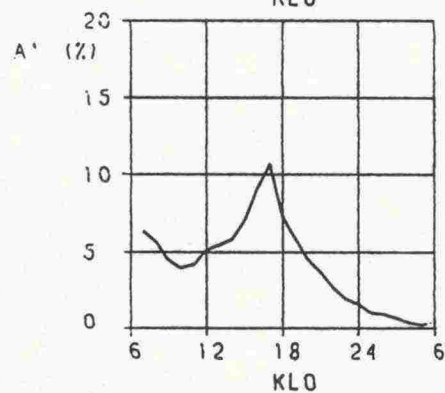
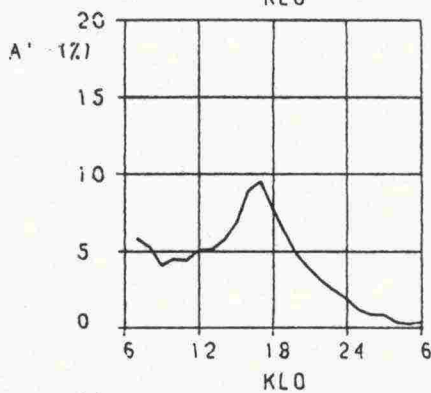
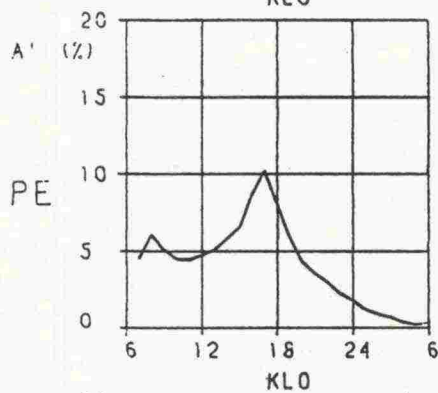
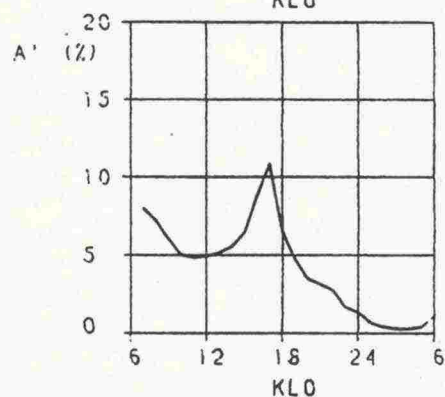
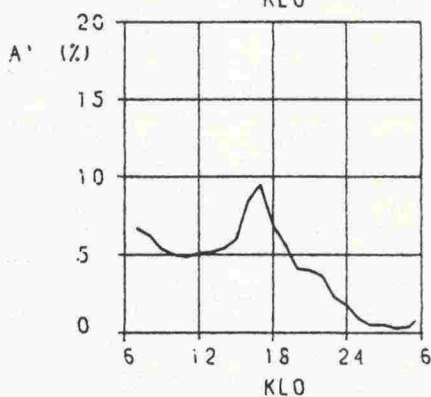
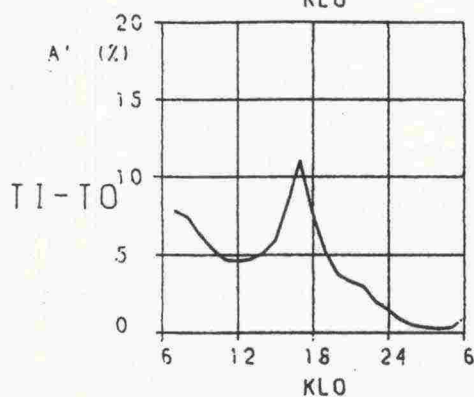
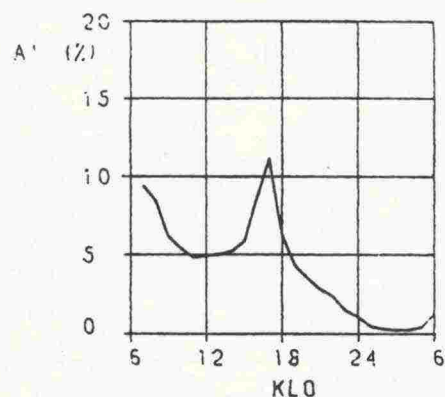
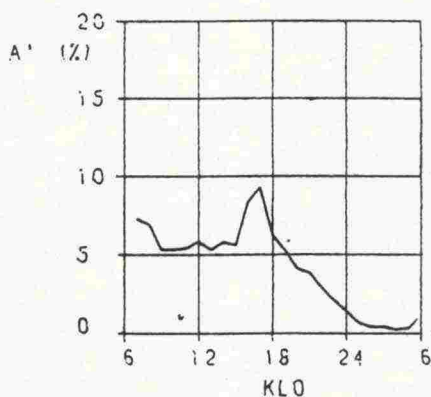
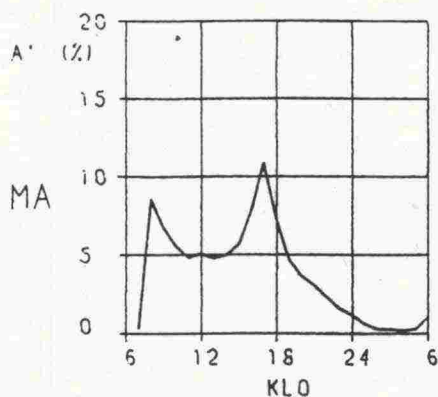


## TUNTI VAIHTELUT

HELMIKUU

HEINAKUU

LOKAKUU



1029KUORTANE/MÄYRY 1987

MT697 TIEOSA 7 ETAISYYS 0.0KM

KVL 1904 B' (SU/KESA) 1.04

KAVL 1824

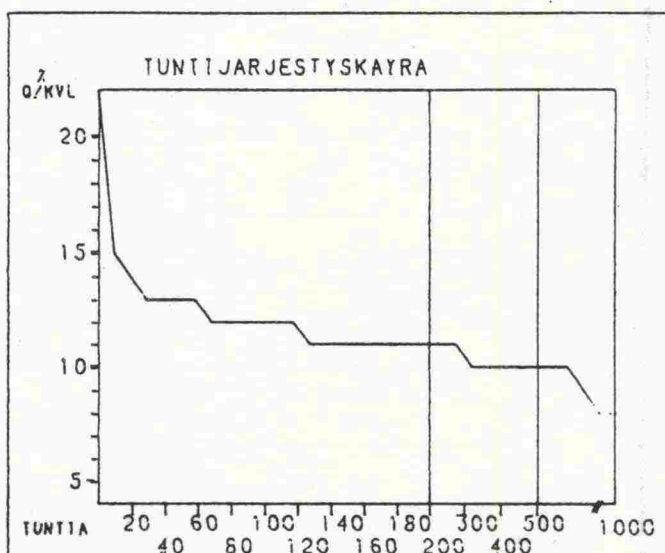
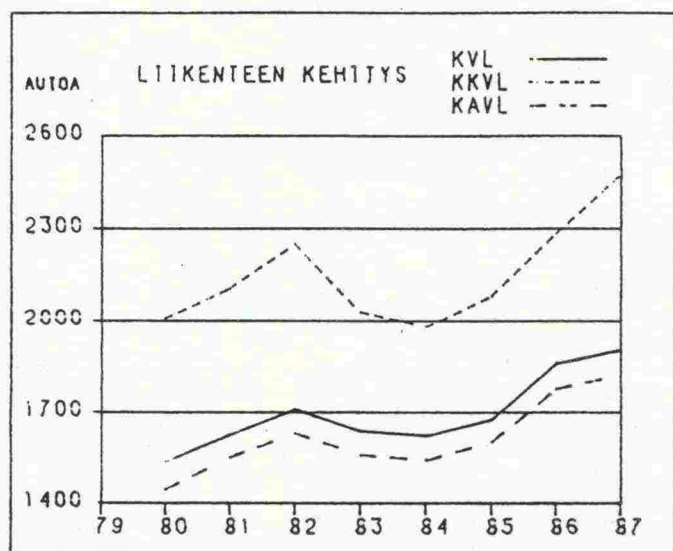
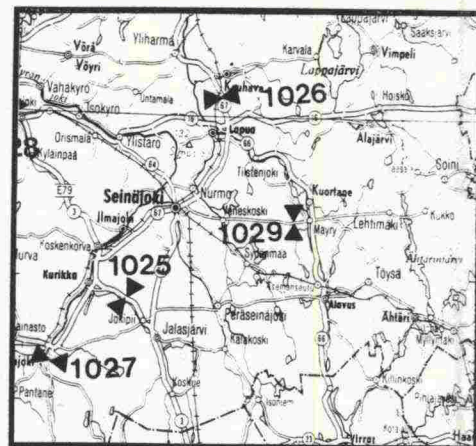
KKVL 2476 D' 1.29

## ARKILIIKENTEEN KOOSTUMUS

HA 79 % PA 6 %

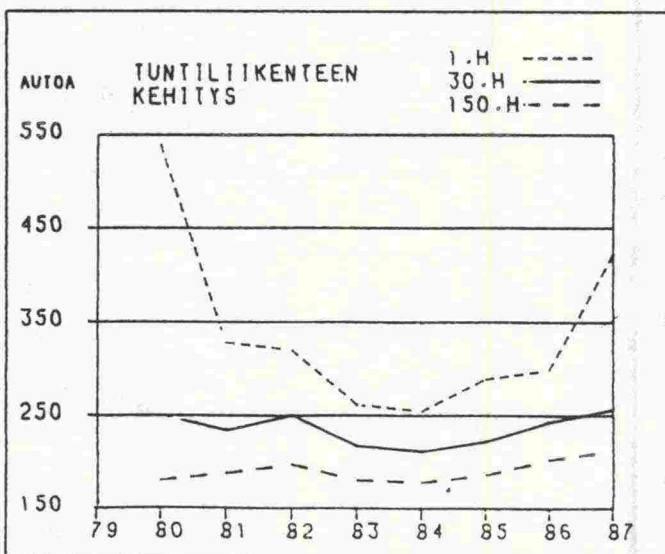
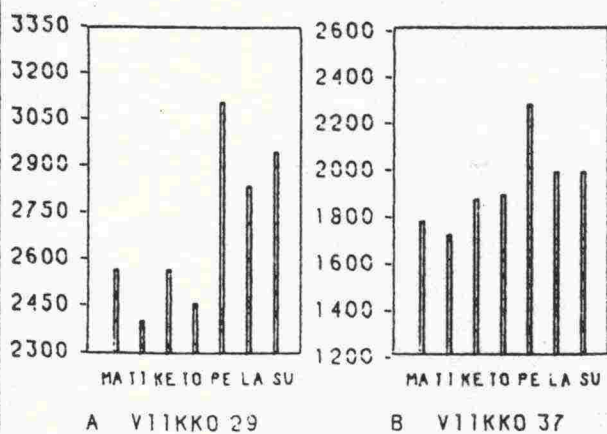
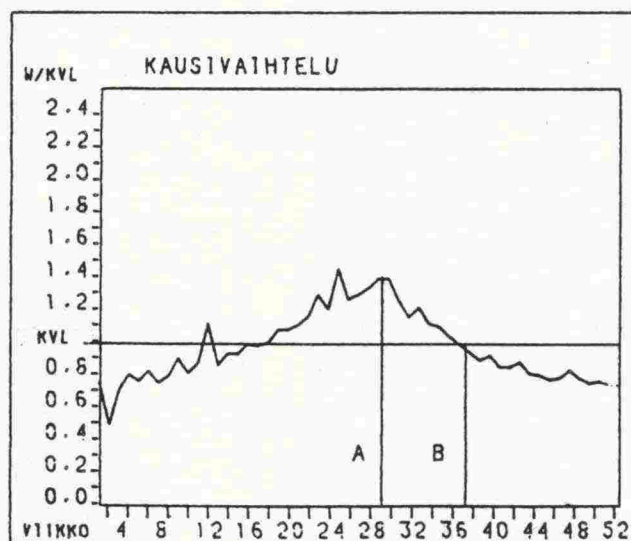
LA 1 % KAIP 6 %

KAPP - % KATP 8 %



H	O	PE-SU (•) KERTYMA	HTK
1	422	100	0.1
30	257	100	1.2
100	228	91	3.6
150	213	85	5.2
300	193	75	9.6
1000	153	60	26.7
5000	62	42	88.5

(•) MONTAKO X KO-ENSIMMAISISTA TUNNEISTA OSUU PE-SU:LE



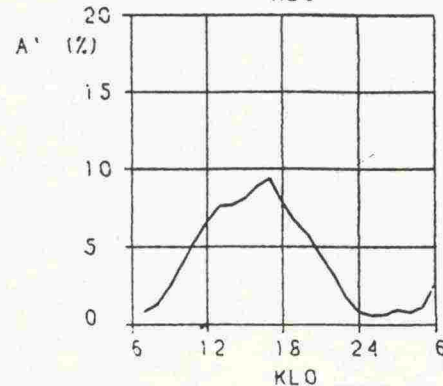
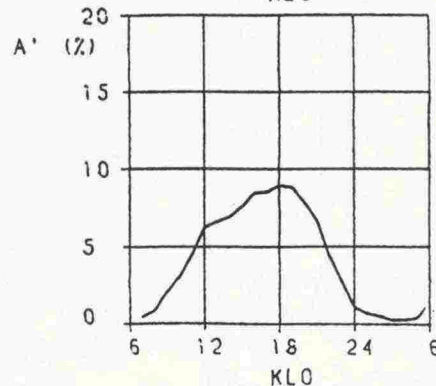
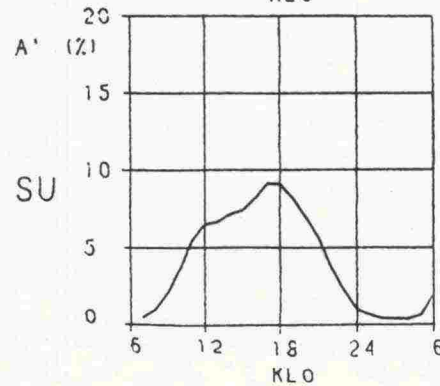
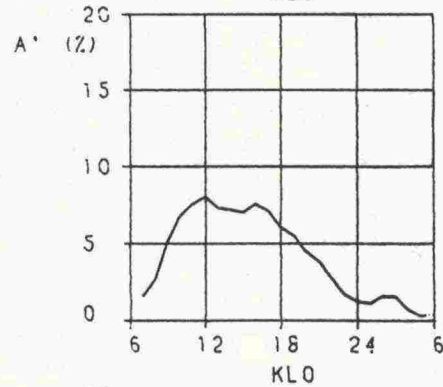
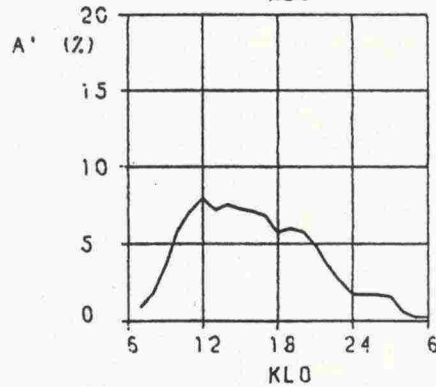
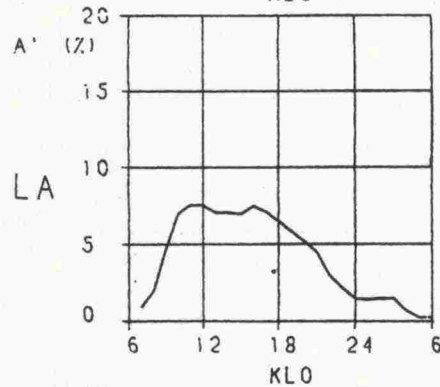
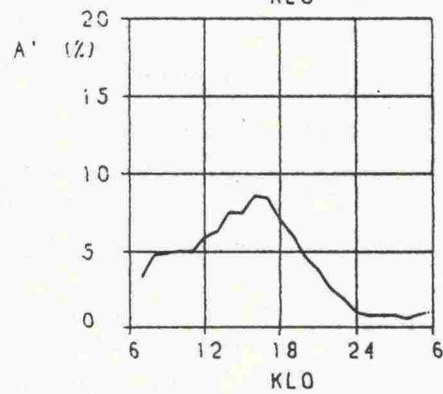
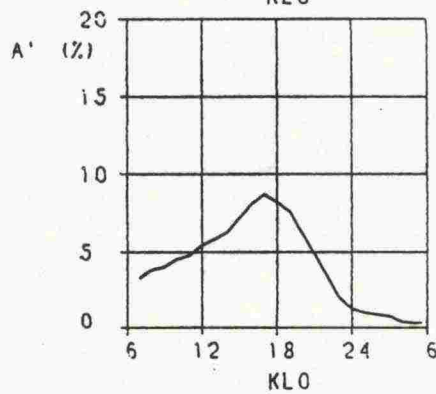
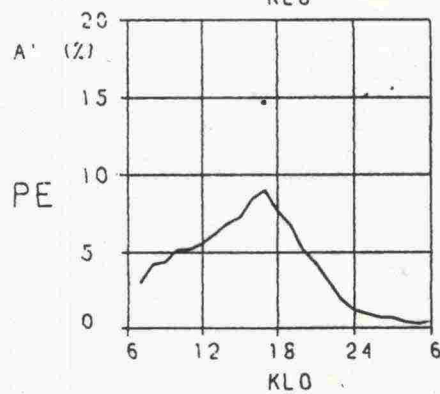
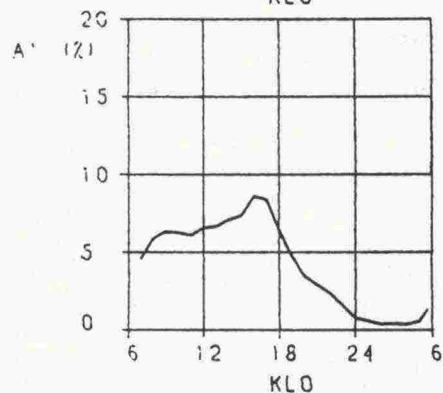
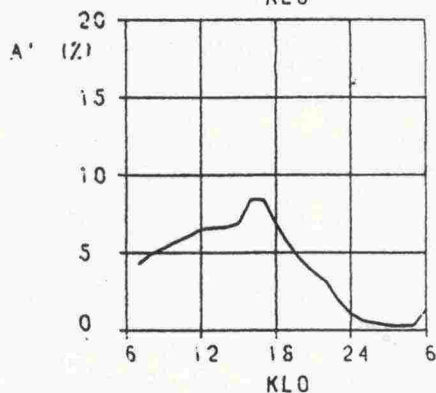
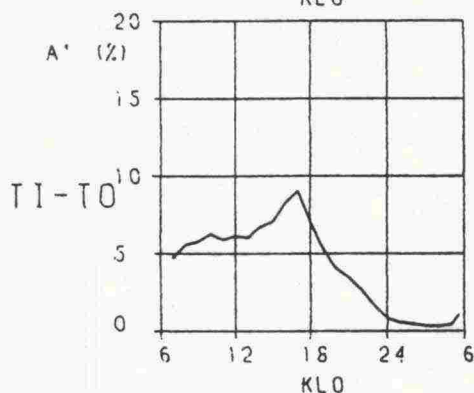
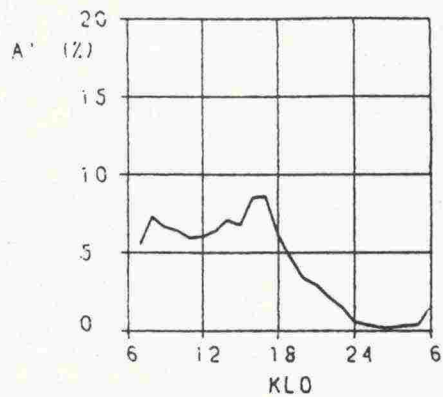
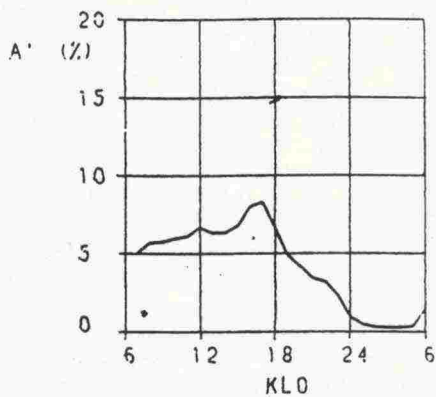
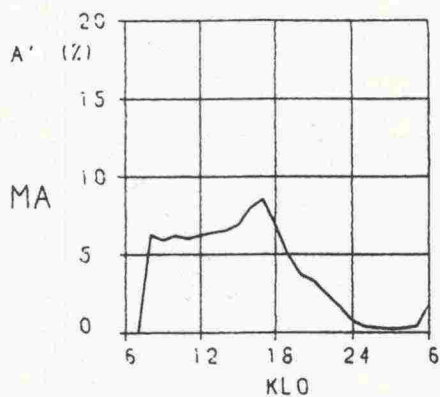


## TUNTIVAIHTELUT

HELMIKUU

HEINAKUU

LOKAKUU



1110PYHÄJOKI

1987

VT8

TIEOSA 422 ETAISYYS 1.2 KM

KVL 2557

B' (SU/KESA) 1.10

KAVL 2389

KKVL 3628

D' 1.41

## ARKILIIKENTEN KOOSTUMUS

HA 80 %

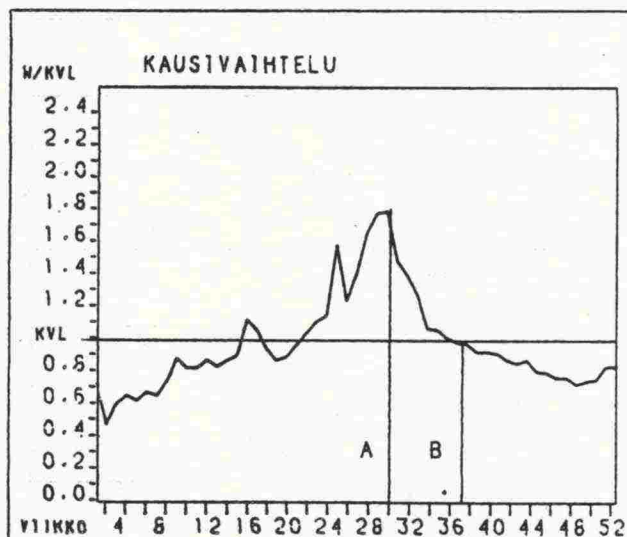
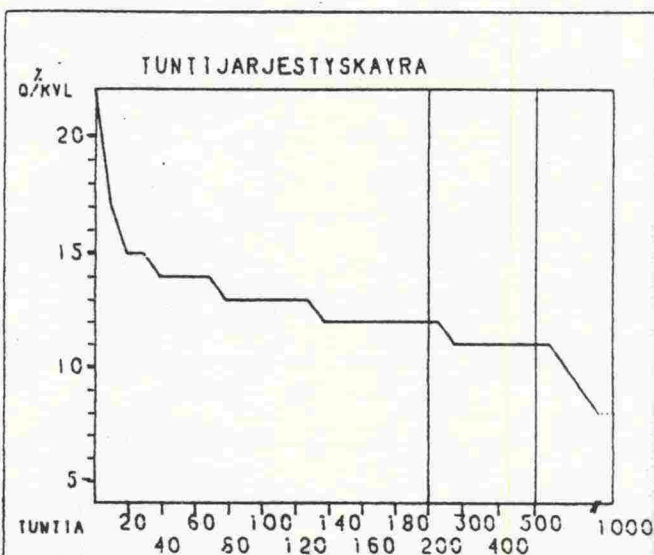
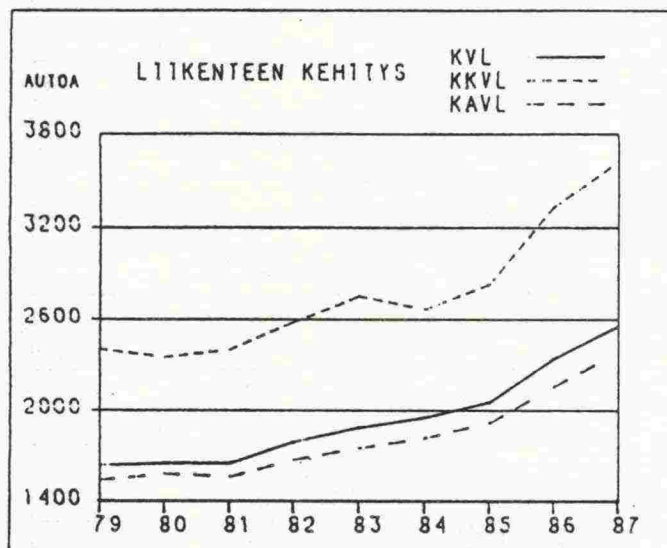
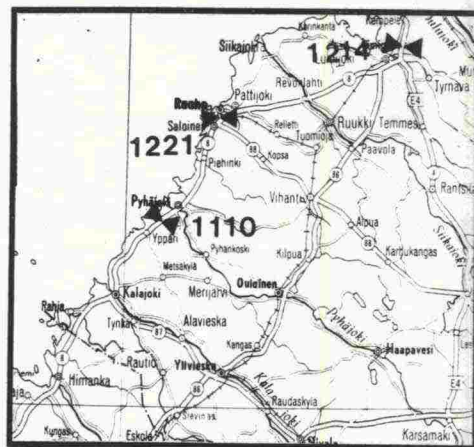
PA 5 %

LA 1 %

KAIP 5 %

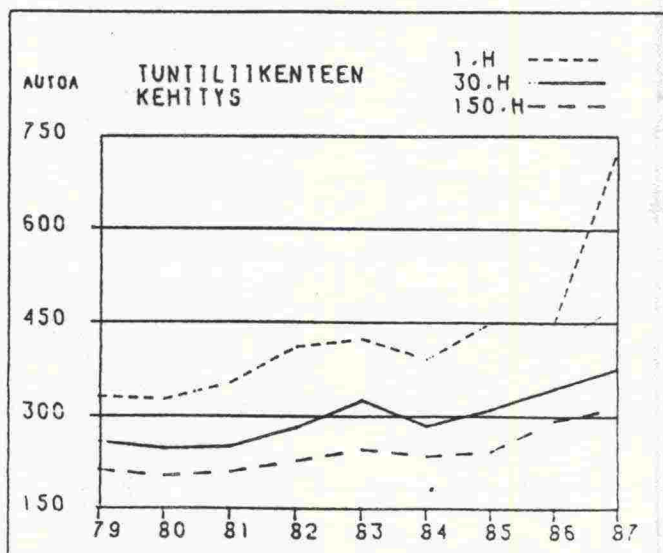
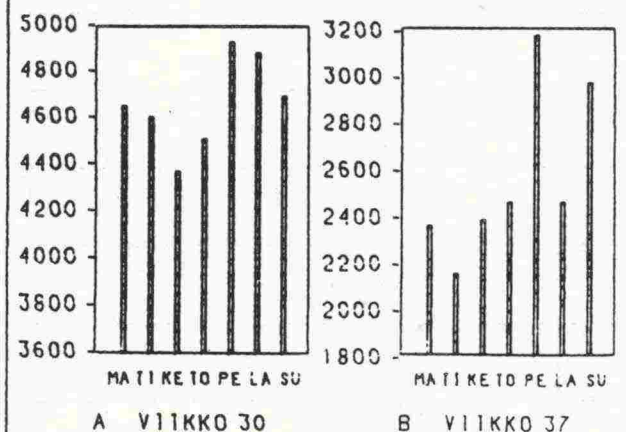
KAPP 1 %

KATP 8 %



H	Q	PE-SU (KERTYMA)	HTK
1	730	100	0.1
30	377	75	1.3
100	332	73	4.0
150	316	68	5.7
300	278	63	10.5
1000	199	64	28.0
5000	86	43	84.2

(\*) MONTAKO % KO-ENSIMMAISISTA TUNNEISTA OSUU PE-SU-LLE



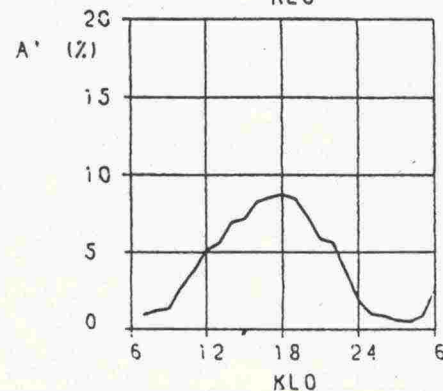
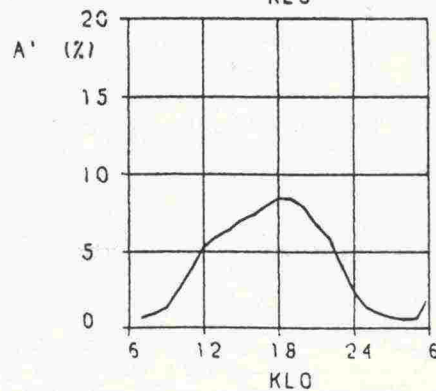
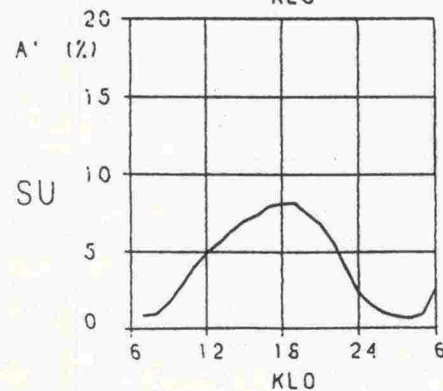
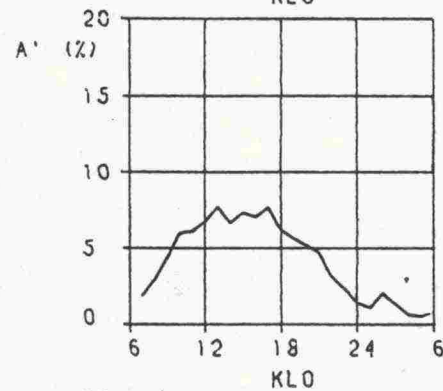
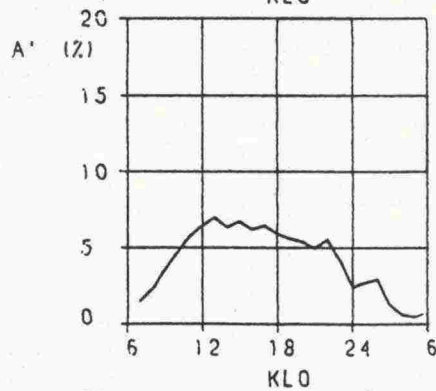
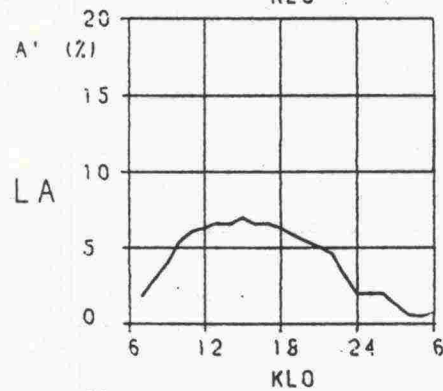
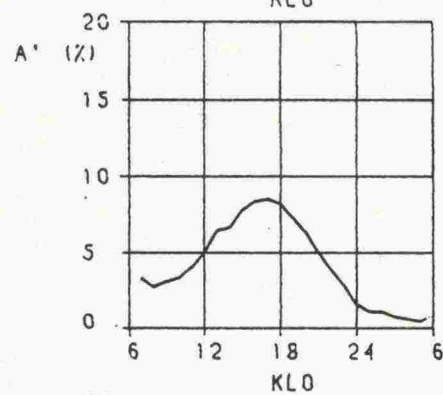
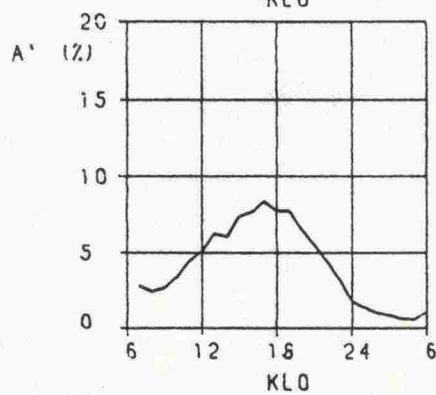
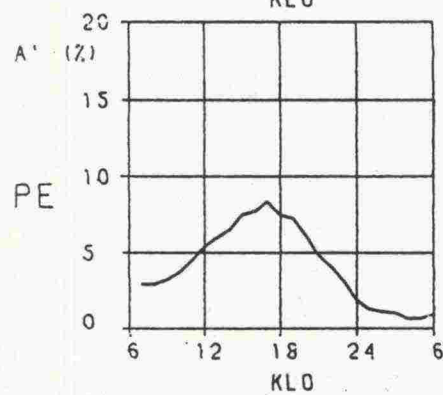
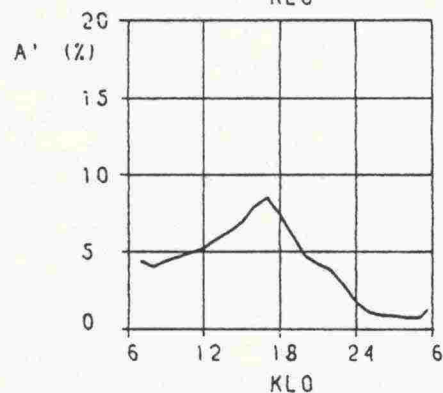
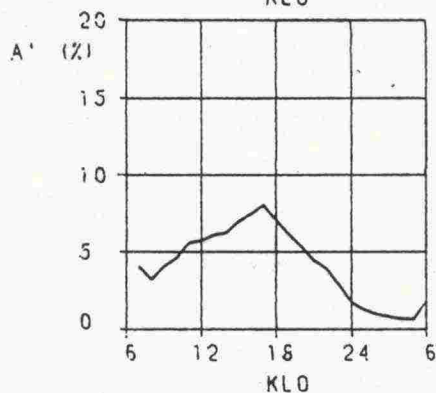
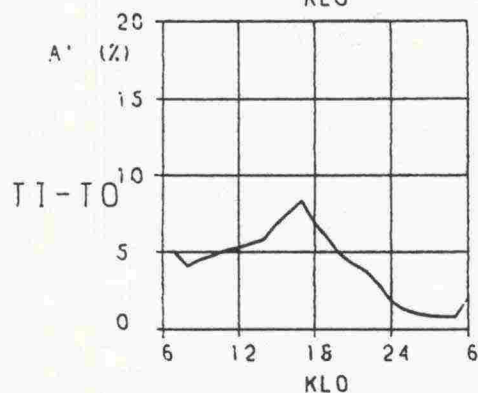
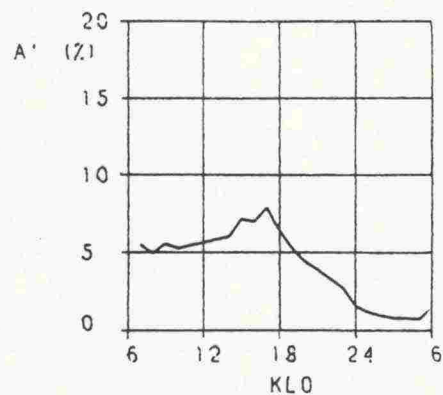
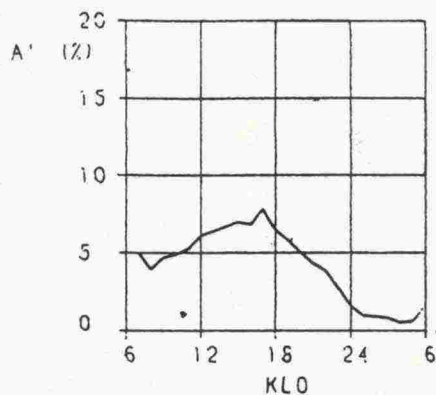
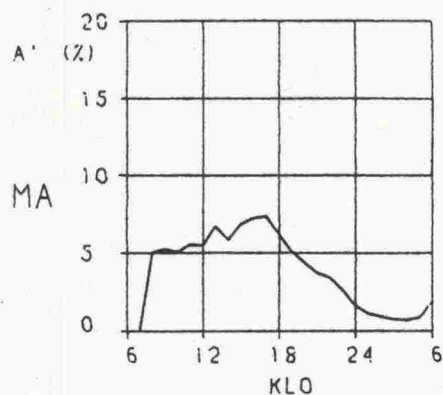


## TUNTIVAIHTELUT

HELMIKUU

HEINAKUU

LOKAKUU



1111 KÄRSÄMÄKI

1987

VT4

TIEOSA 341 ETAISYYS 3.4 KM

KVL 2283

B' (SU/KESA) 1.17

KAVL 2092

KKVL 3167

D' 1.38

## ARKILIIKENTEEEN KOOSTUMUS

HA 81 %

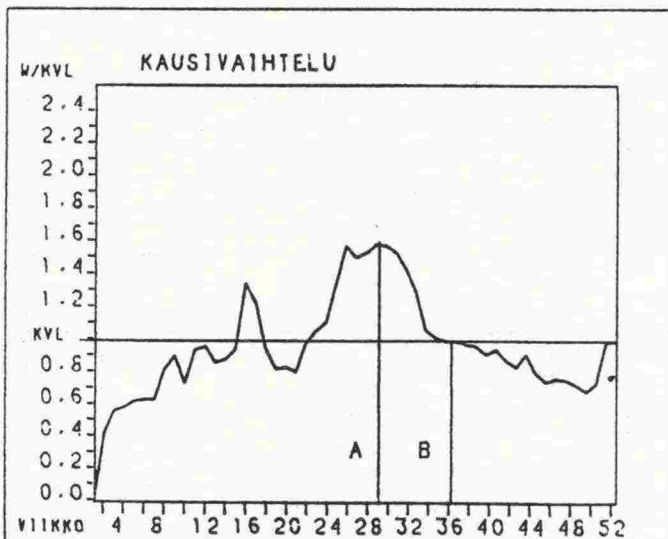
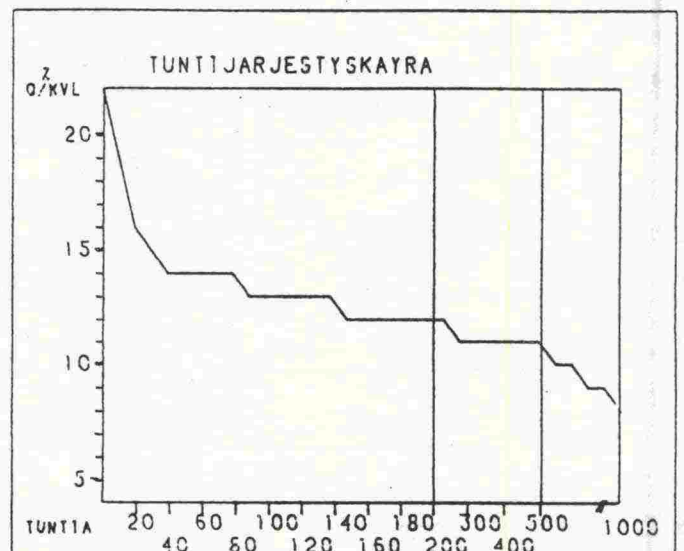
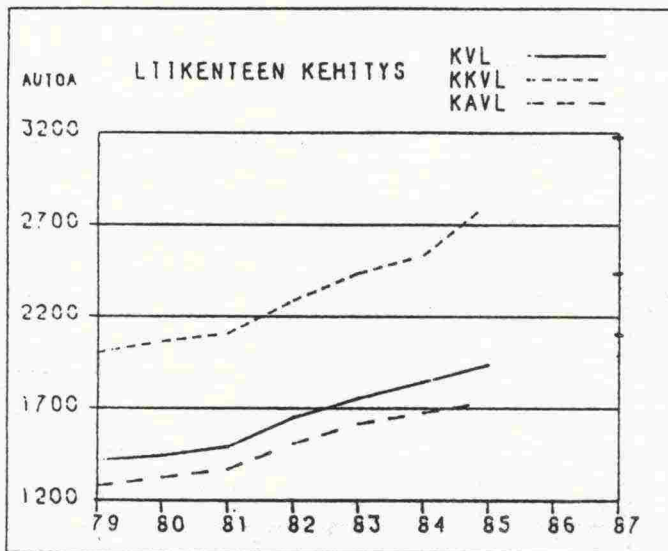
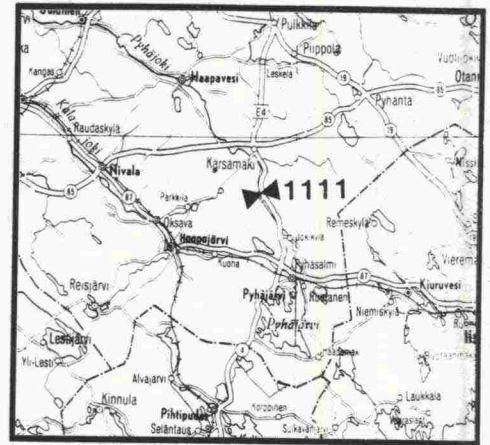
PA 5 %

LA 2 %

KAIP 3 %

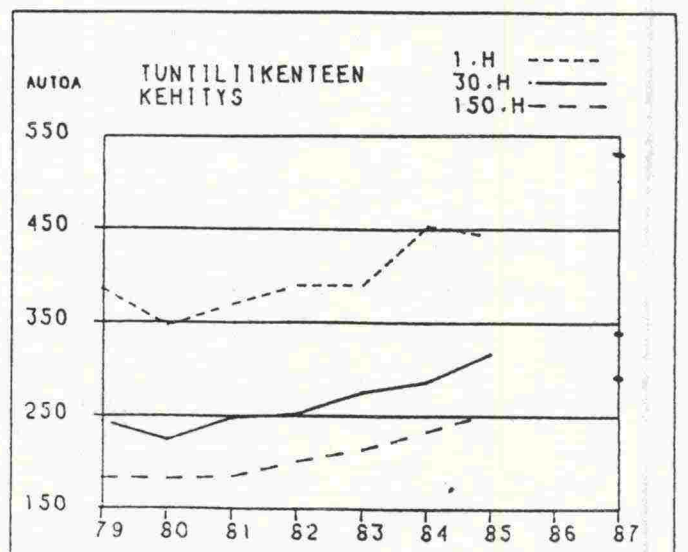
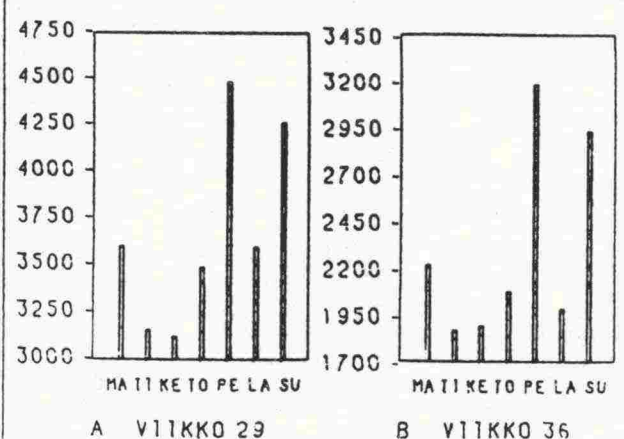
KAPP 1 %

KATP 8 %



H	Q	PE-SU (KERTYMA)	HTK
1	533	100	0.1
30	341	50	1.5
100	301	76	4.1
150	284	80	5.9
300	250	79	10.6
1000	182	65	28.2
5000	74	43	82.9

(\*) MONTAKO 2 KO. ENSIMMAISISTA TUNNEISTA OSUU PE-SU: LLE



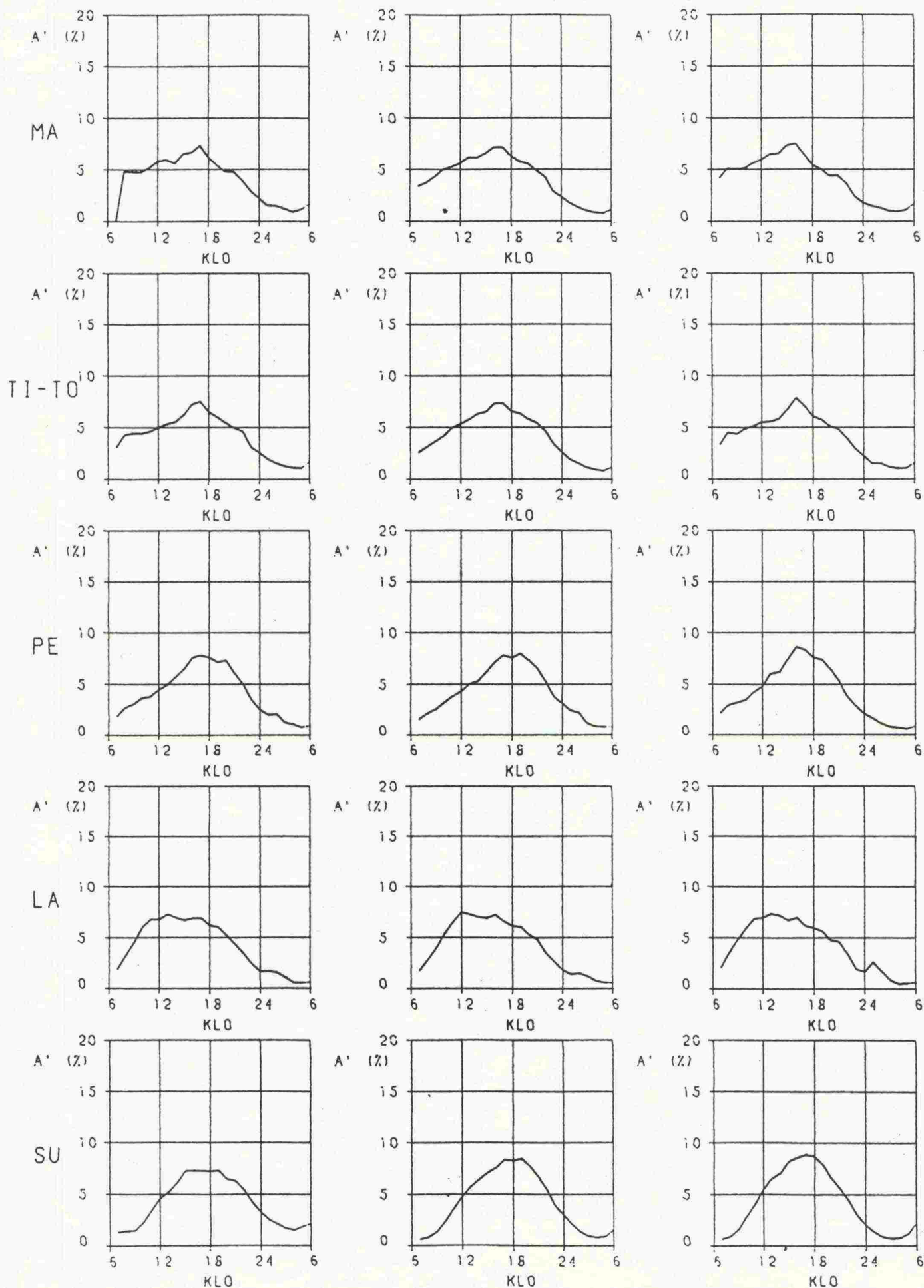


## TUNTIVAIHTELUT

HELMIKUU

HEINAKUU

LOKAKUU



1112 KÄLVIA

1987

KT85

TIEOSA 4

ETAISYYS 2.6 KM

KVL 2646

B' (SU/KESA) 0.92

KAVL 2720

KKVL 3014

D' 1.13

## ARKILIIKENTEEN KOOSTUMUS

HA 76 %

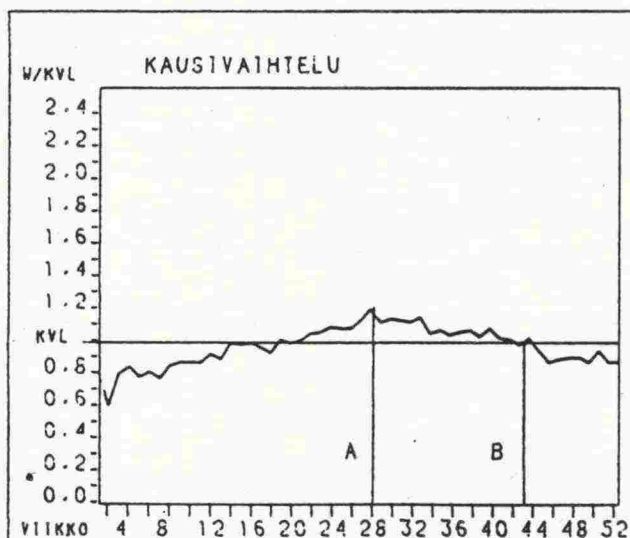
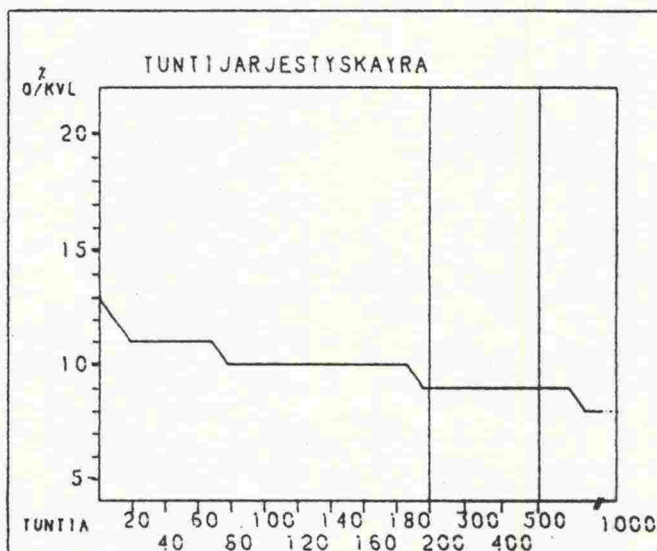
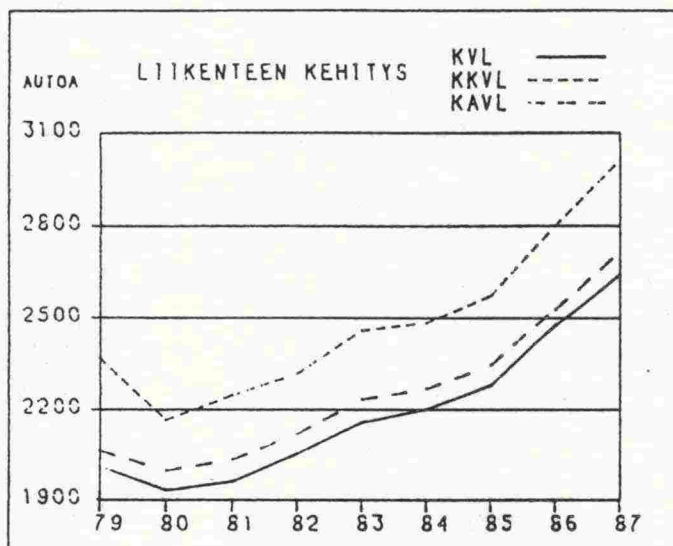
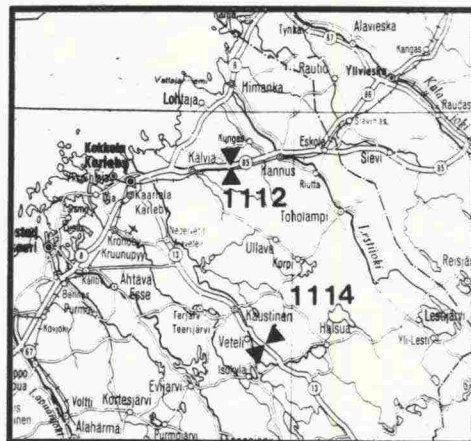
PA 8 %

LA 1 %

KAIP 7 %

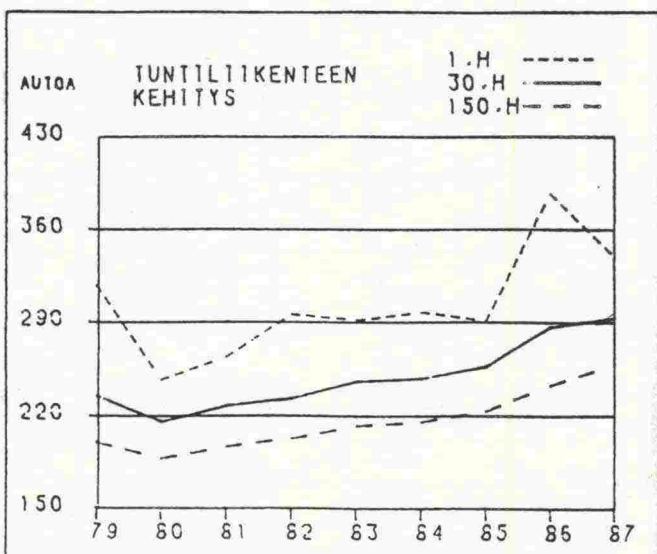
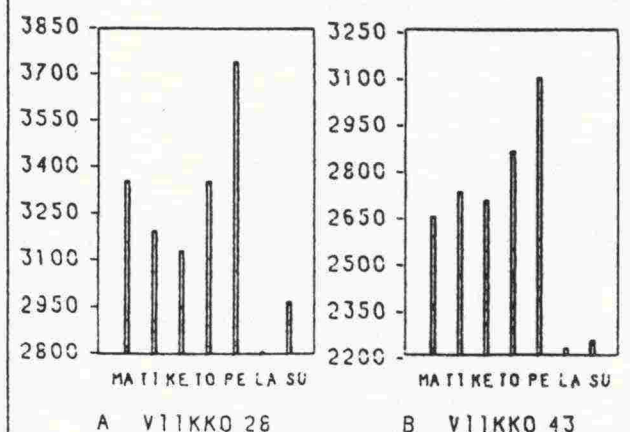
KAPP - %

KATP 8 %



H	Q	PE-SU (*)	KERTYMA	HTK
1	340	100	0.1	0.76
30	294	87	1.0	0.88
100	270	80	3.0	0.85
150	259	69	4.4	0.81
300	240	56	8.2	0.85
1000	199	45	23.9	0.92
5000	95	40	85.8	0.95

(\*) MONTAKO 2 KO ENSIMMAISISTA TUNNEISTA OSUU PE-SU:ALLE



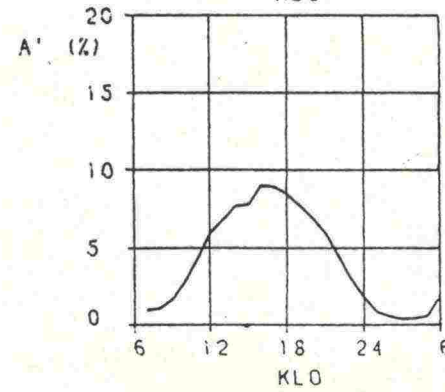
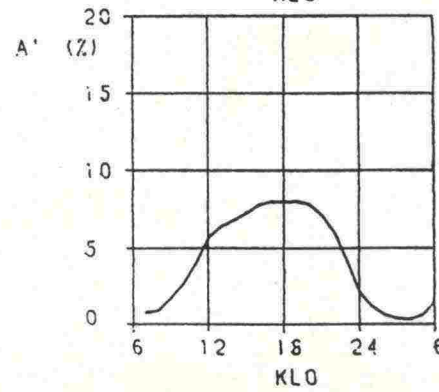
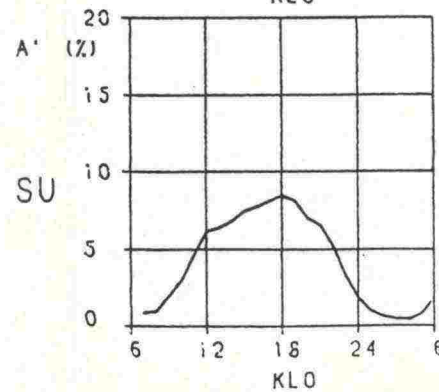
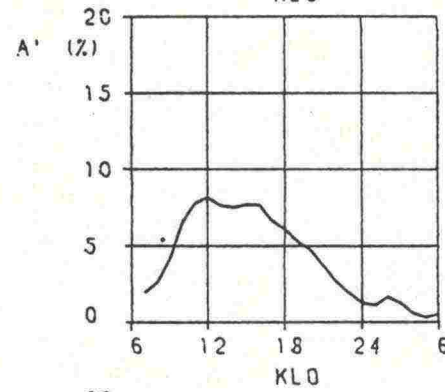
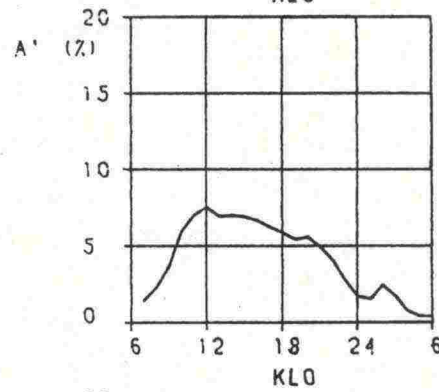
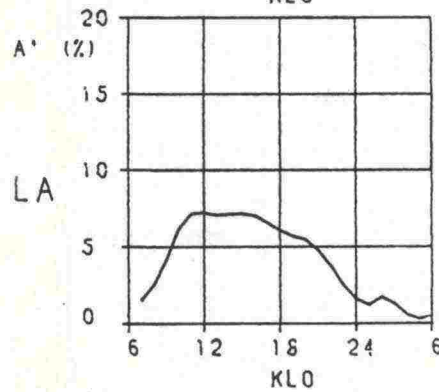
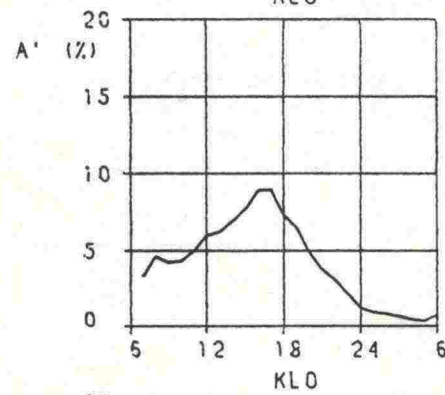
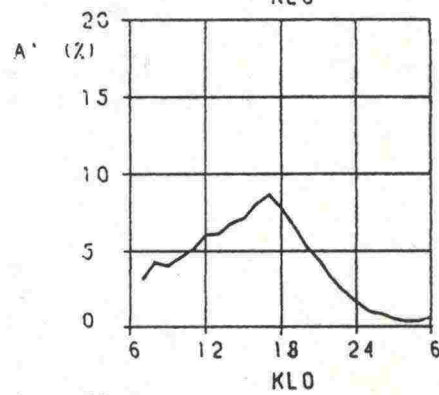
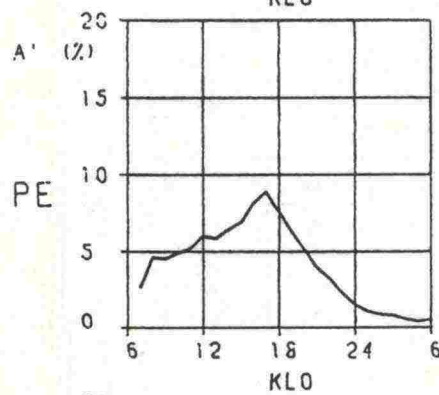
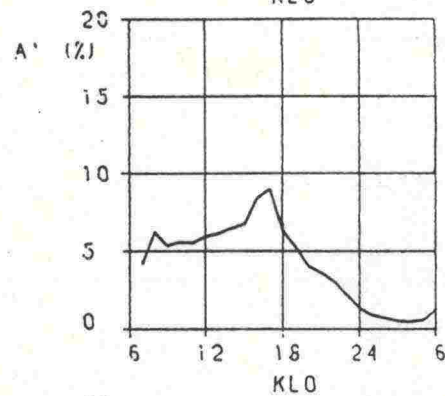
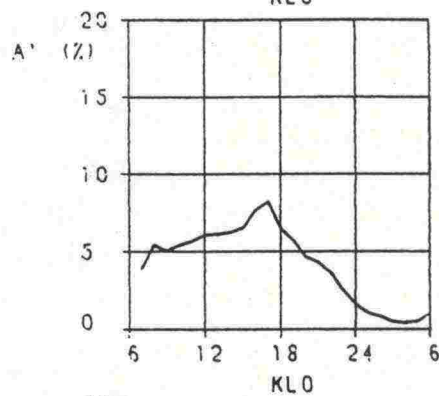
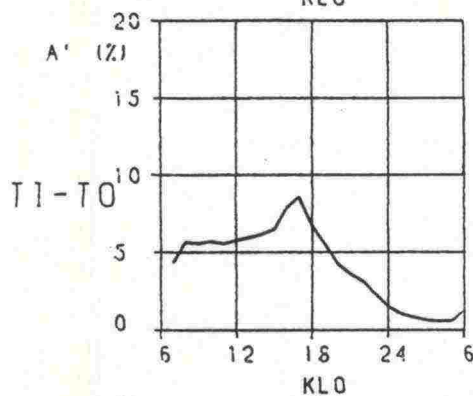
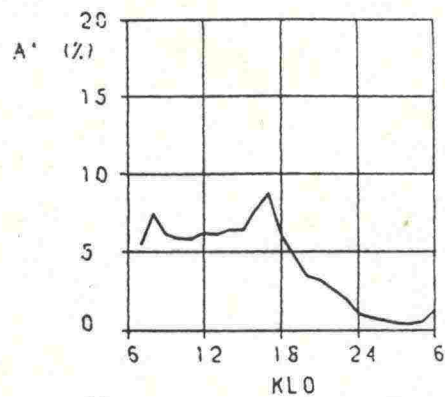
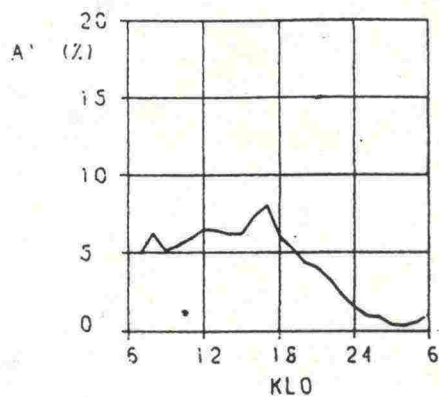
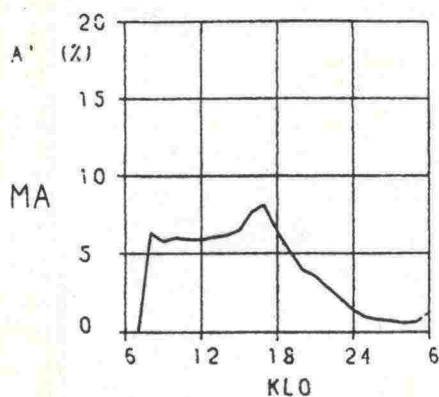


## TUNTIVAIHTELUT

HELMIKUU

HEINAKUU

LOKAKUU



1114 VETELI

1987

VT13 TIEOSA 227 ETAISYYS 5.3 KM

KVL 1067 B' (SU/KESA) 1.15

KAVL 1016

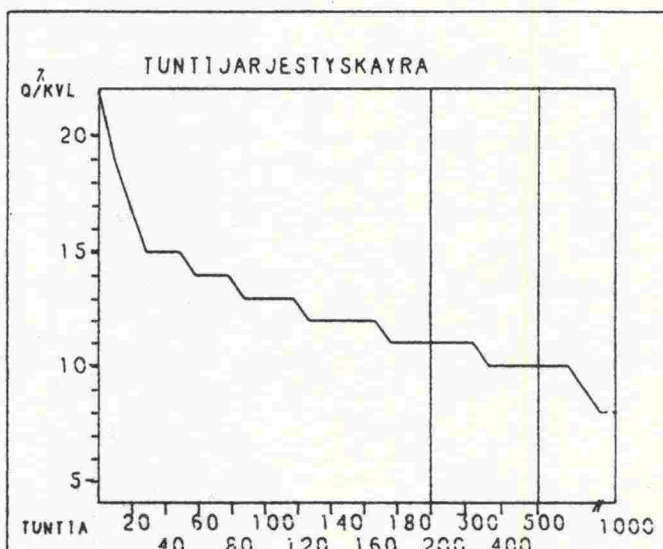
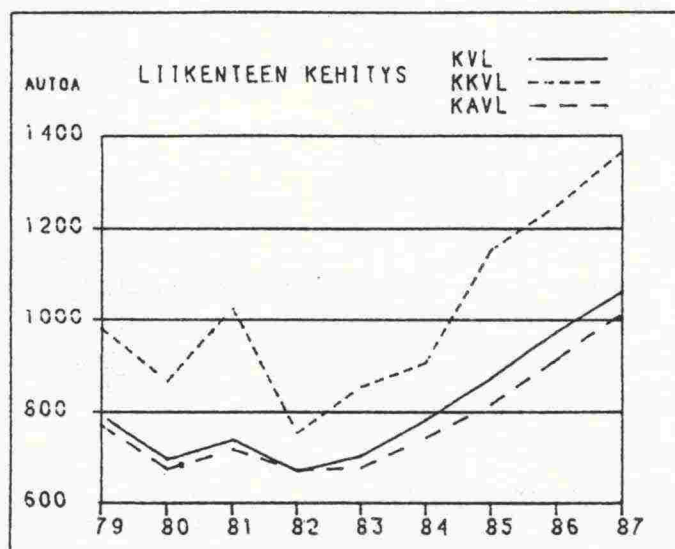
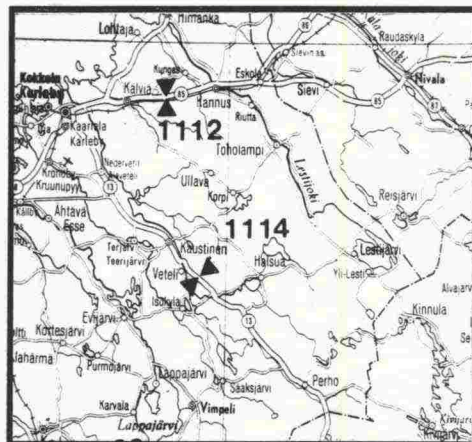
KKVL 1367 D' 1.28

## ARKILIIKENTEN KOOSTUMUS

HA 78 % PA 6 %

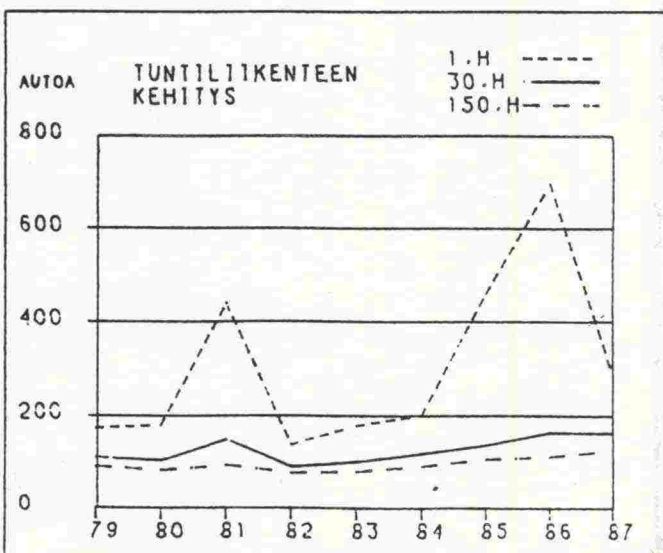
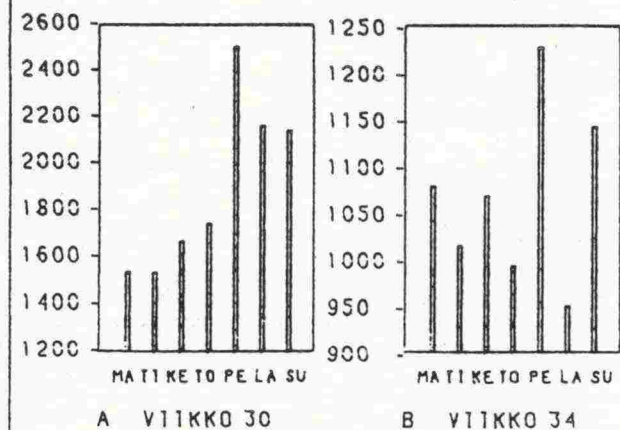
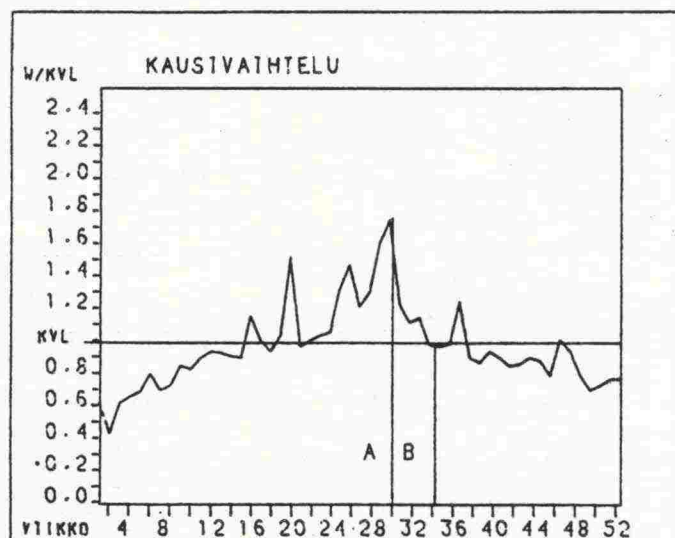
LA 1 % KAIP 7 %

KAPP - % KATP 8 %



H	Q	PE-SU (%)	KERTYMA	HTK
1	285	100	0.1	0.52
30	164	93	1.5	-
100	137	89	4.2	0.66
150	127	87	5.9	0.96
300	110	79	10.4	0.92
1000	85	62	27.7	0.76
5000	35	41	87.1	0.80

(\*) MONTAKO % KO-ENSIMMAISISTA TUNNEISTA OSUU PE-SU-LLE



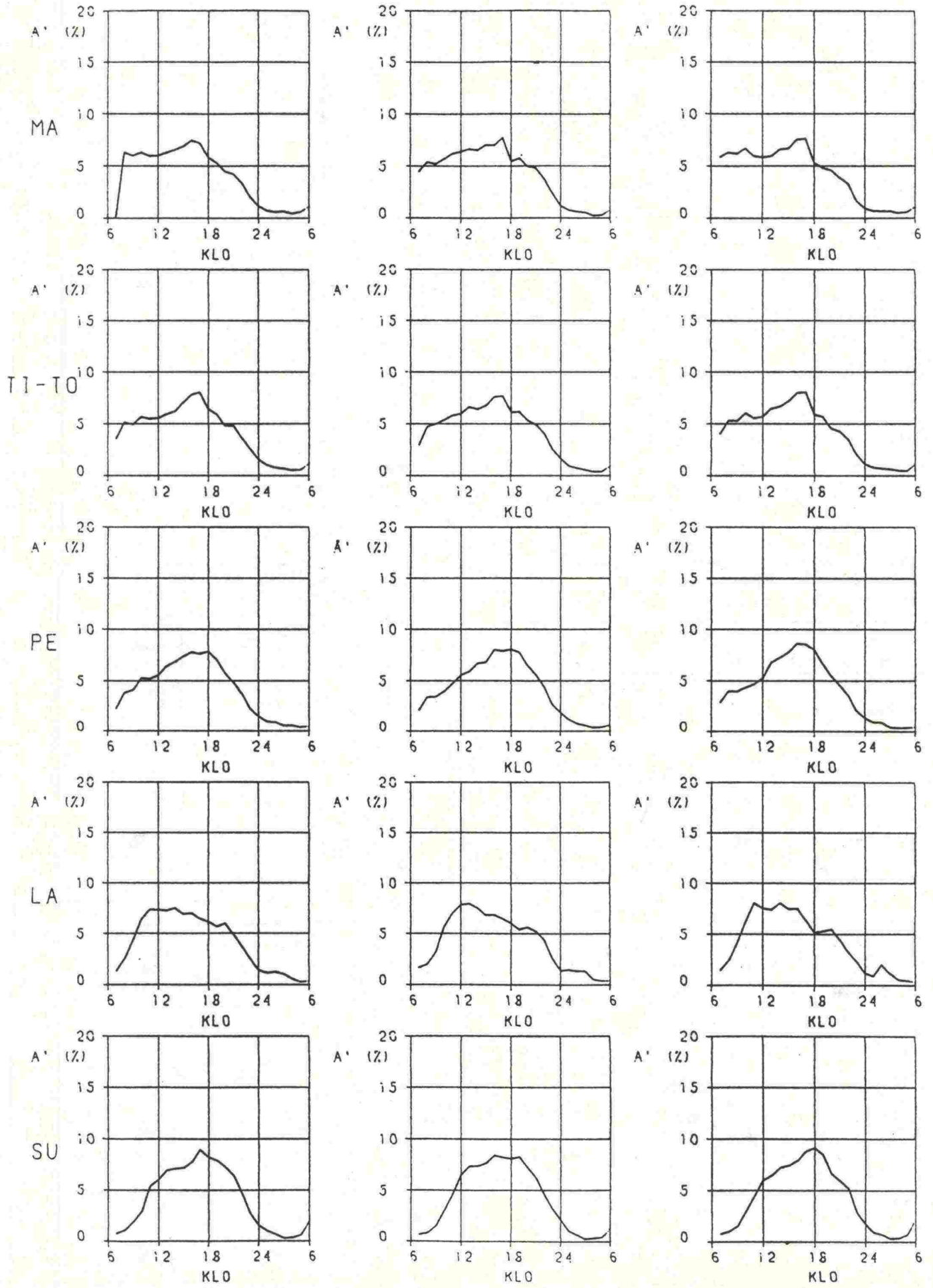


# TUNTIVAIHTELUT

HELMIKUU

HEINAKUU

LOKAKUU



1214TUPOS

1987

VT4

TIEOSA 363 ETAISYYS 1.8 KM

KVL 8057

B' (SU/KESA) 1.14

KAVL 7629

KKVL 10314

D' 1.27

## ARKILIIKENTEN KOOSTUMUS

HA 80 %

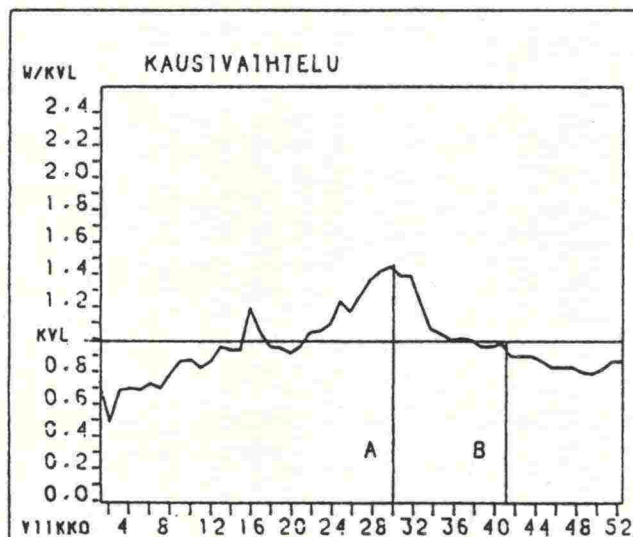
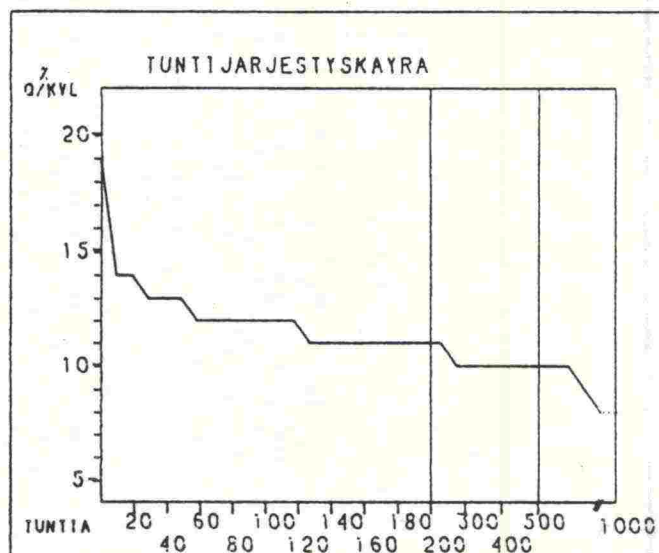
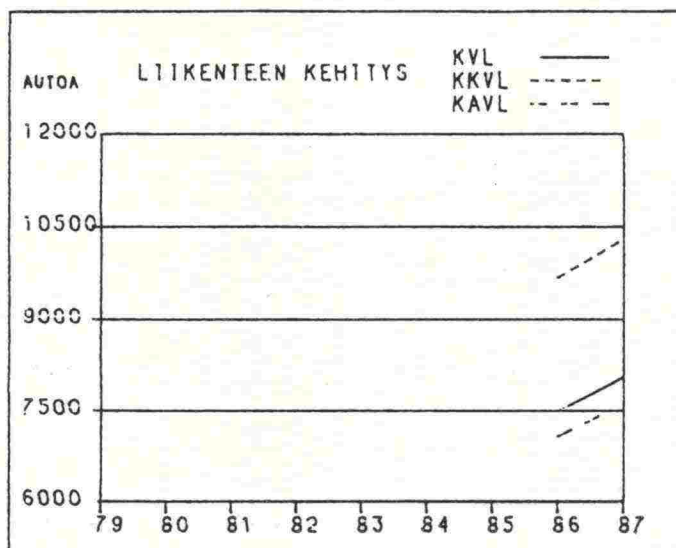
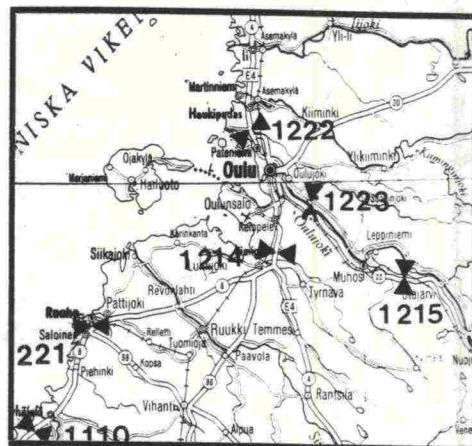
PA 6 %

LA 2 %

KAIP 4 %

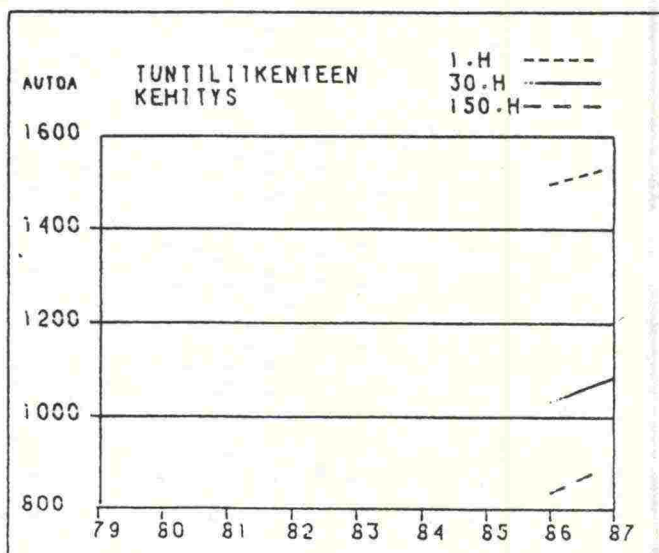
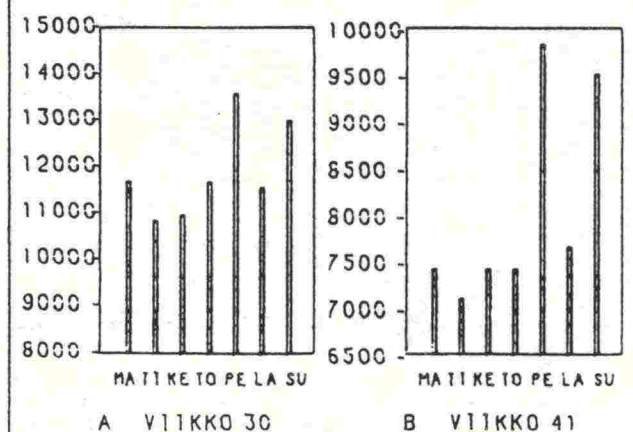
KAPP 1 %

KATP 7 %



H	O	PE-SU (KERTYMA)	HTK
1	1538	100	0.1
30	1084	97	1.2
100	952	93	3.6
150	903	87	5.4
300	823	81	9.5
1000	620	62	26.2
5000	276	42	84.5

(\*) MONTAKO % KO-ENSIMMAISISTA TUNNEISTA OSUU PE-SU-LLE



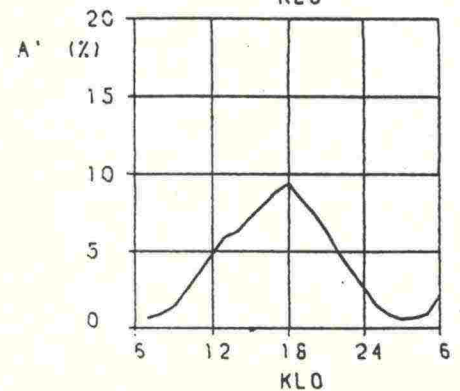
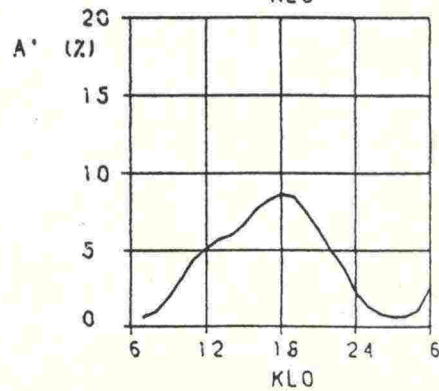
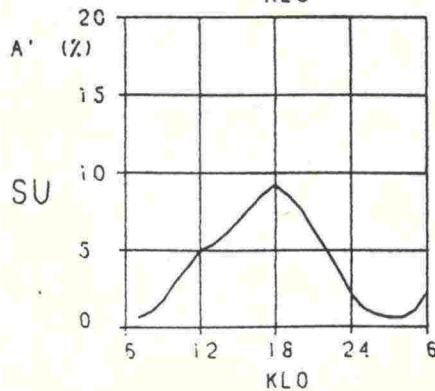
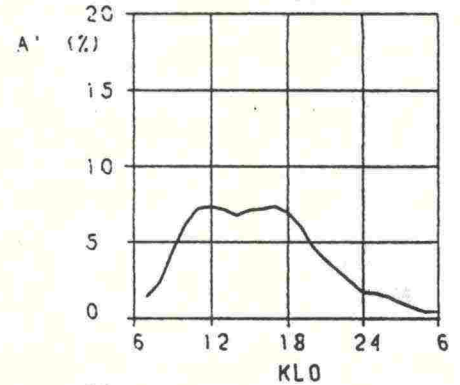
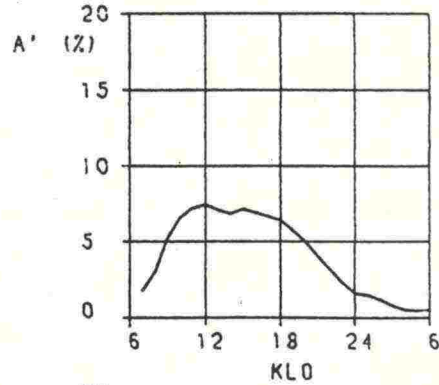
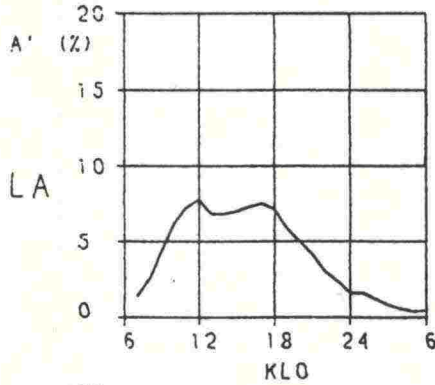
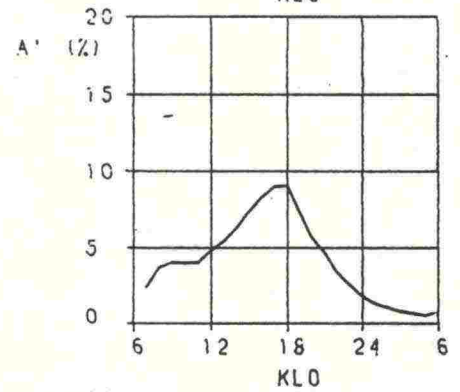
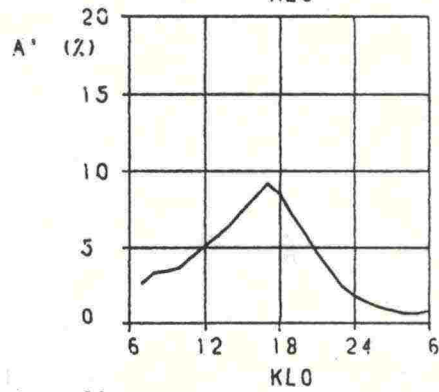
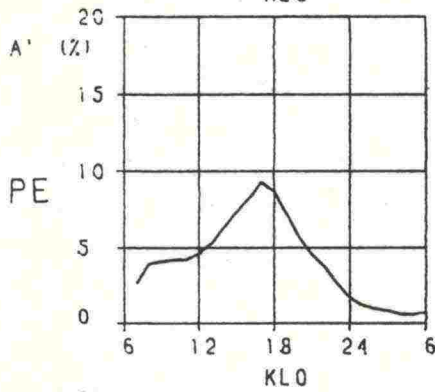
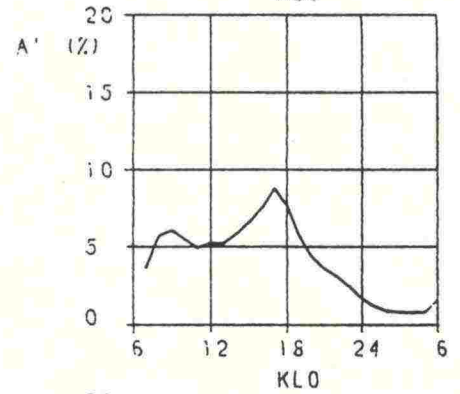
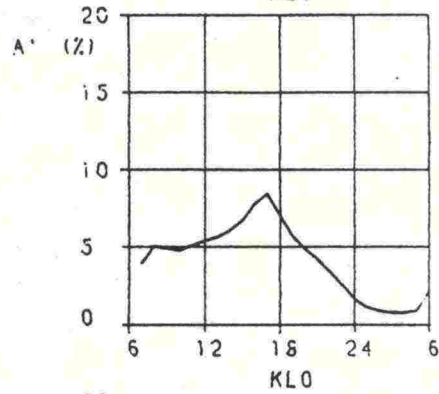
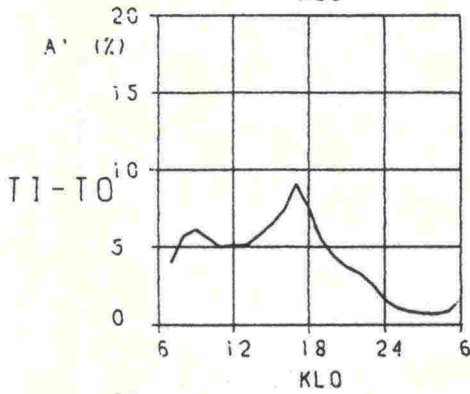
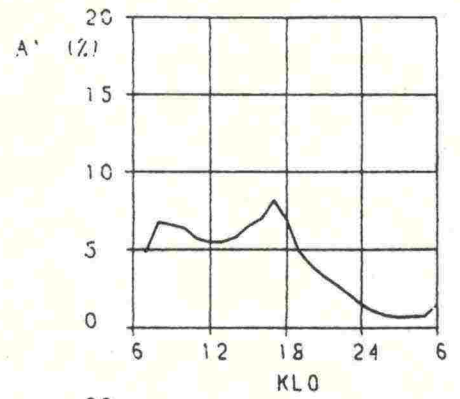
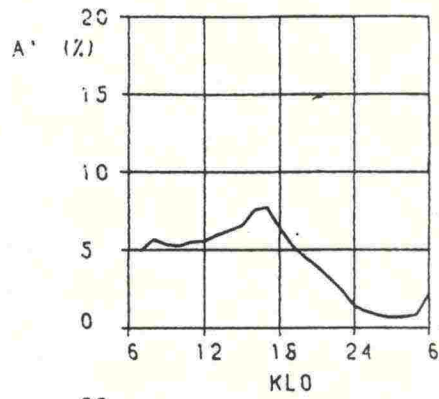
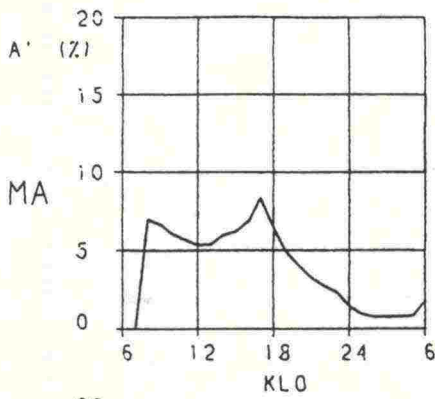


## TUNTIVAIHTELUT

HELMIKUU

HEINAKUU

LOKAKUU





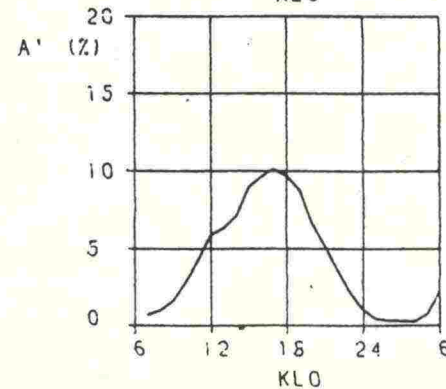
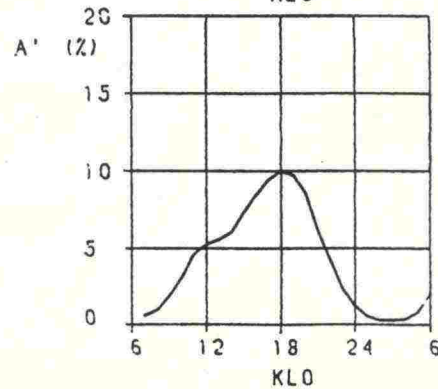
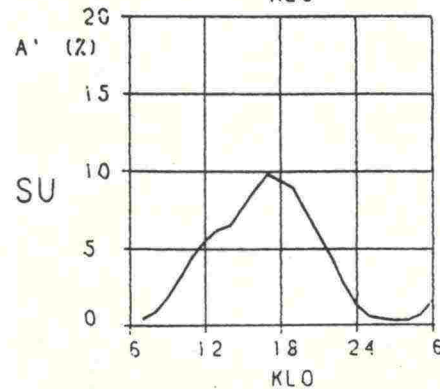
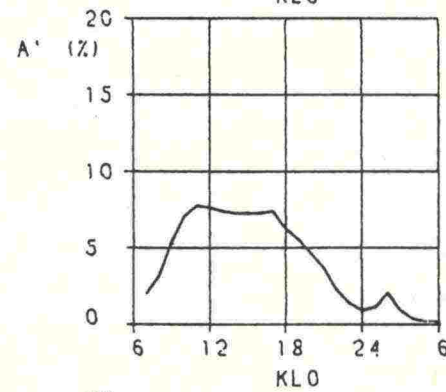
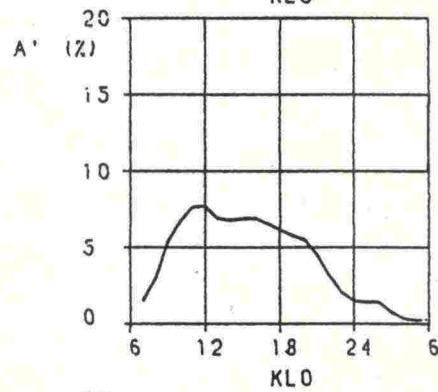
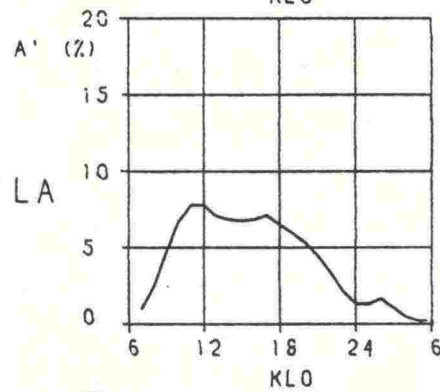
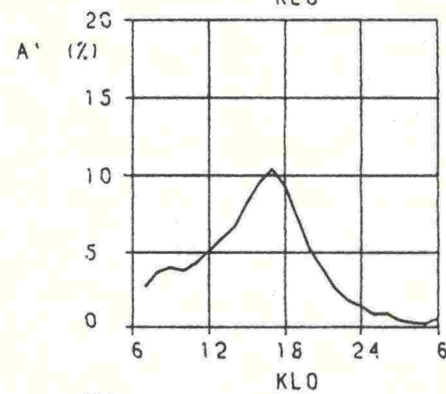
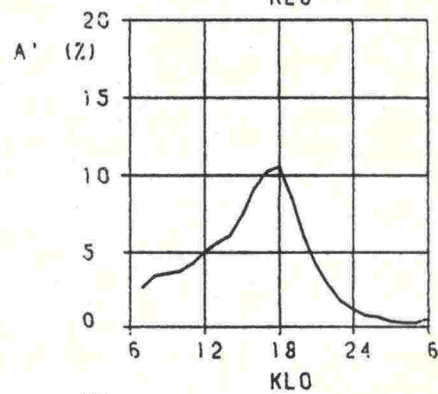
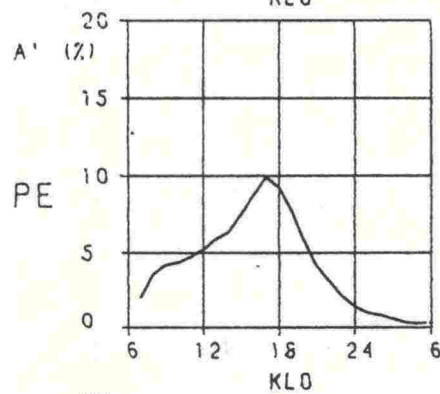
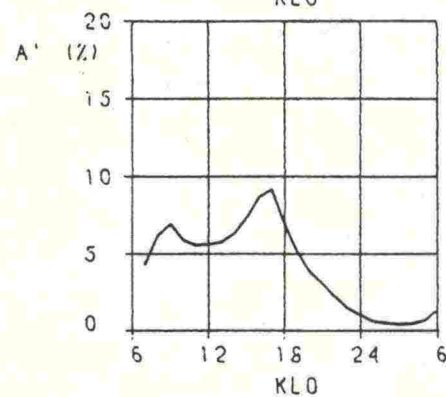
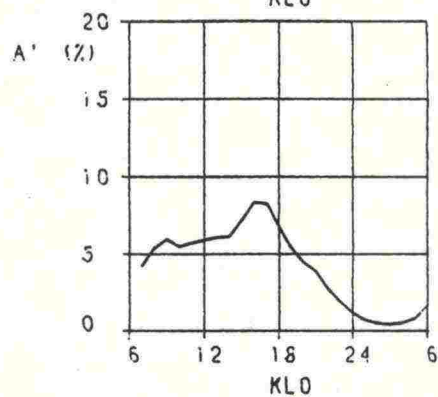
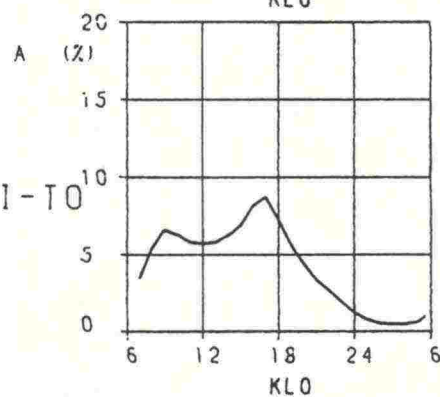
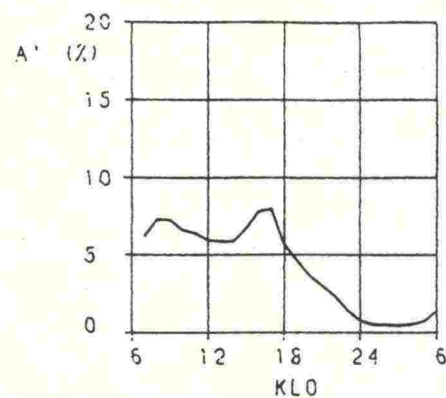
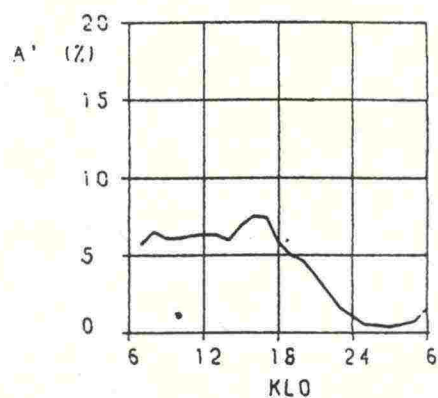
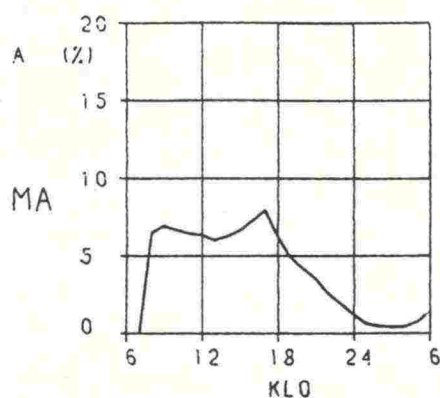


## TUNTIVAIHTELUT

HELMIKUU

HEINAKUU

LOKAKUU



1221RAAHE

MT8103

TIEOSA 1

ETAISYYS 1.2 KM

1987

KVL 6271

B' (SU/KESA) 0.73

KAVL 6466

KKVL 6640

D' 1.05

## ARKILIIKENTEEN KOOSTUMUS

HA 91 %

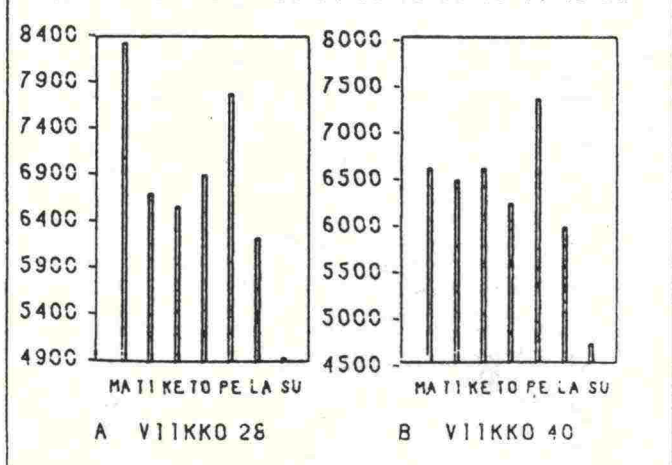
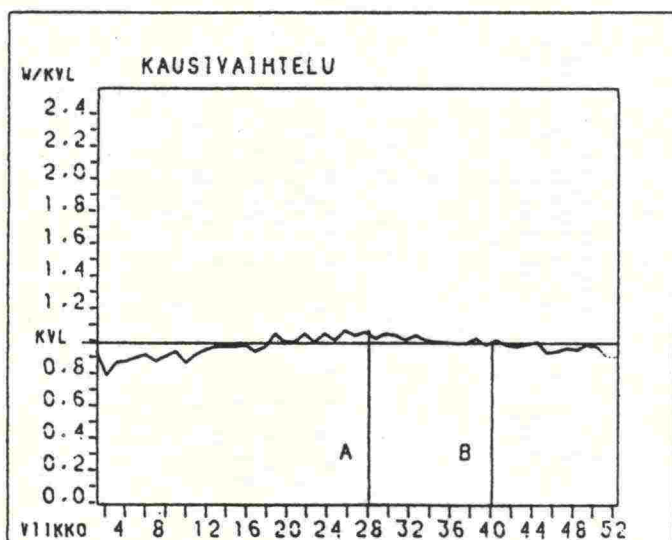
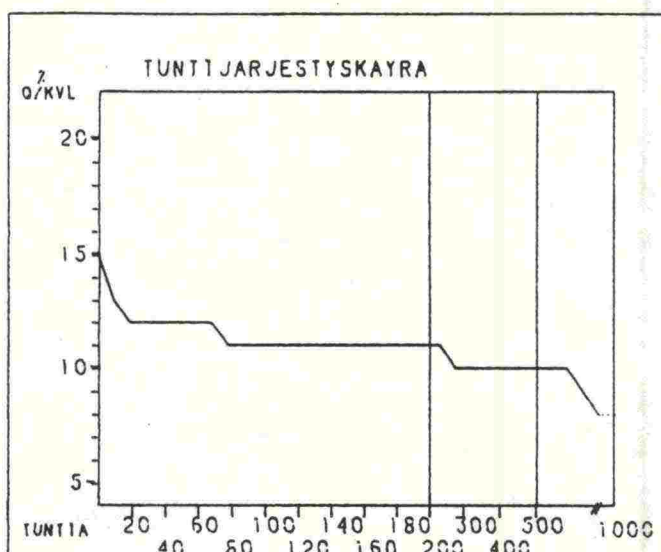
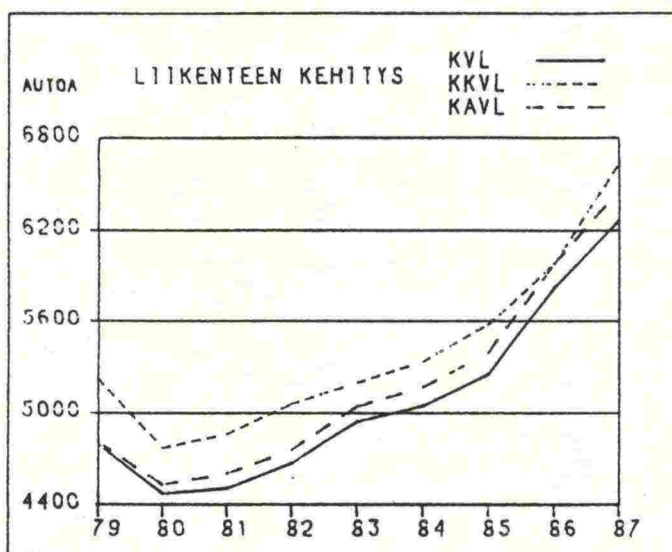
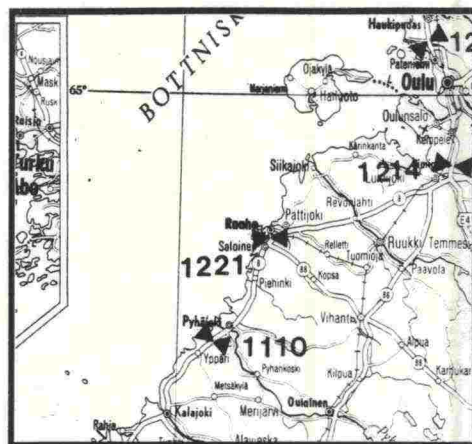
PA 5 %

LA 1 %

KAIP 2 %

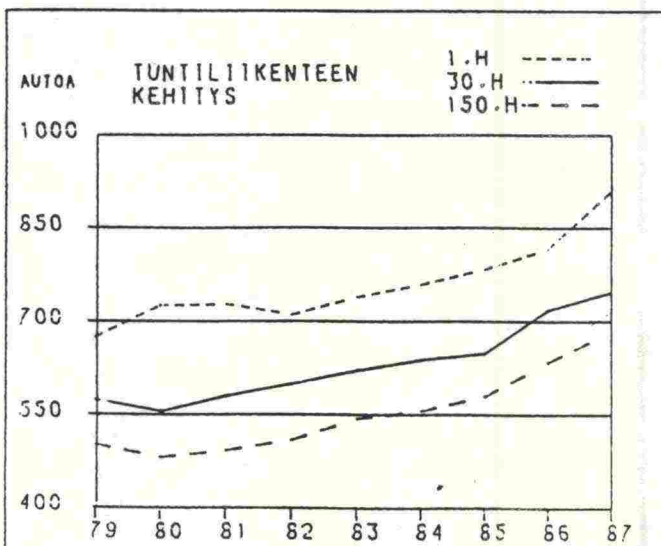
KAPP - %

KATP 1 %



H	O	PE-SU (*)	KERTYMA	HTK
1	911	100	0.1	0.89
30	748	73	1.0	0.77
100	704	52	3.2	0.94
150	684	45	4.8	-
300	632	38	9.1	0.84
1000	501	38	26.0	0.89
5000	229	40	88.1	0.75

(\*) MONTAKO % KO-ENSIMMAISISTA TUNNEISTA OSUUS PE-SU-LLE



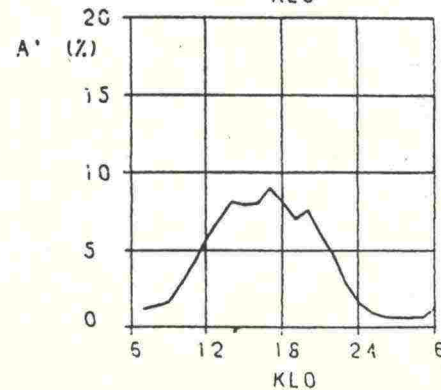
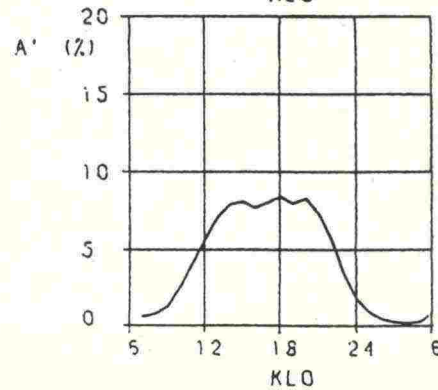
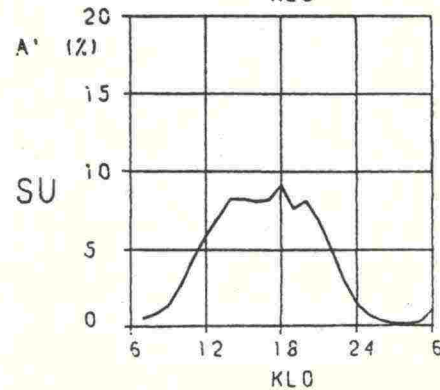
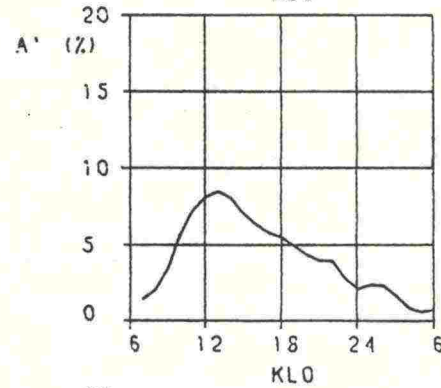
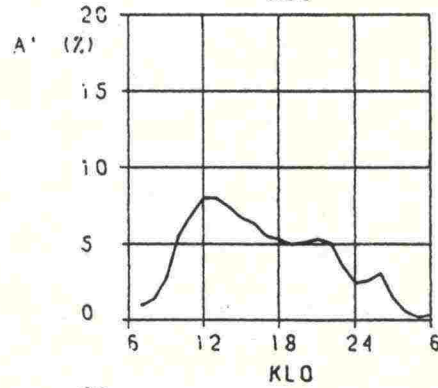
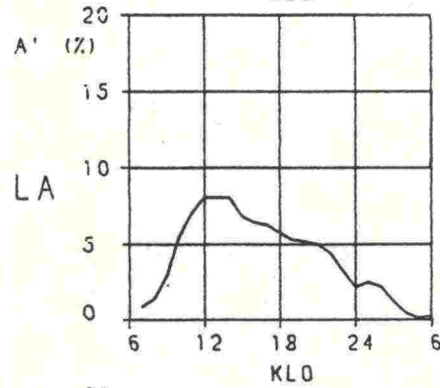
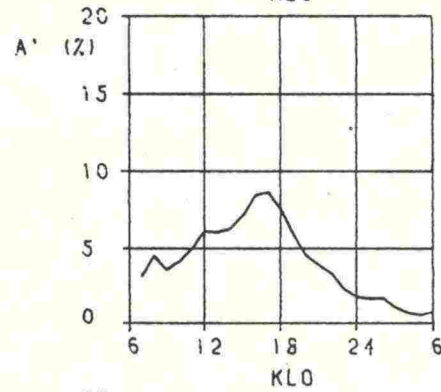
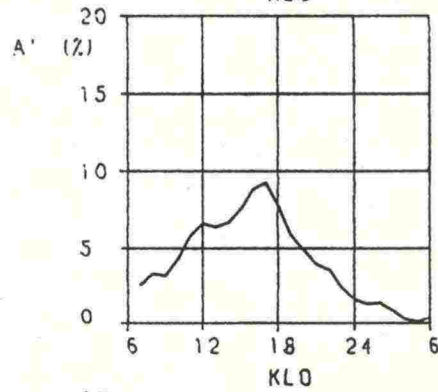
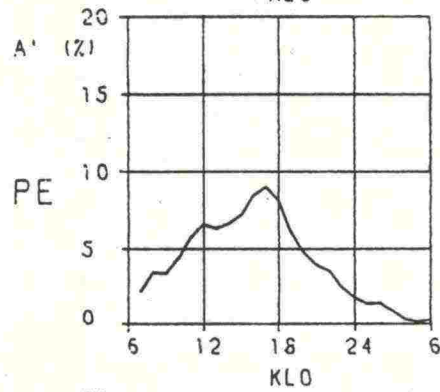
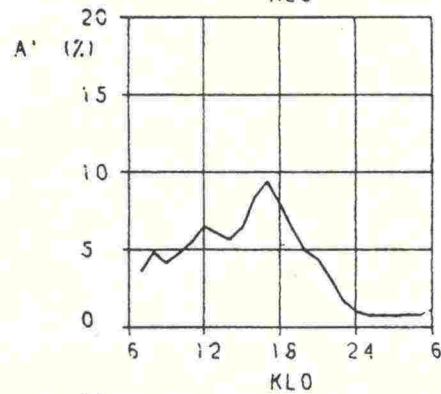
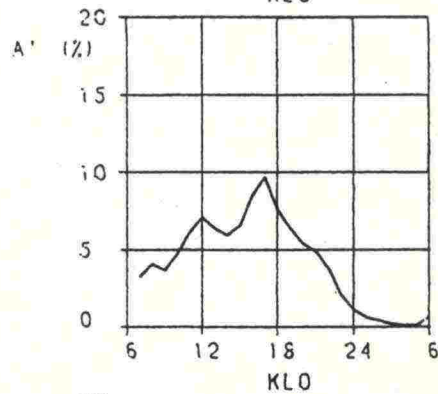
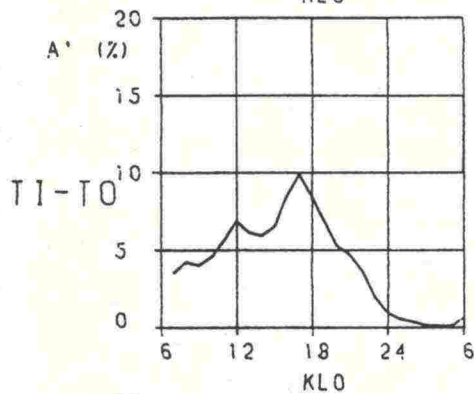
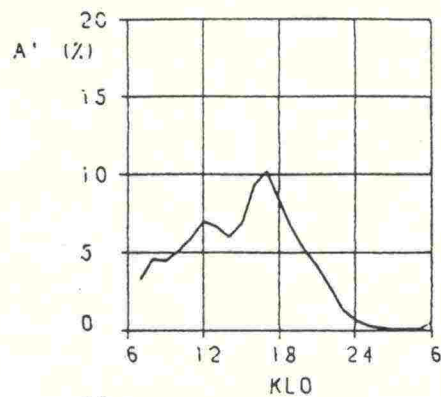
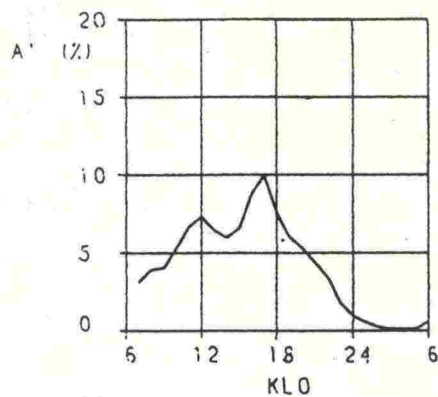
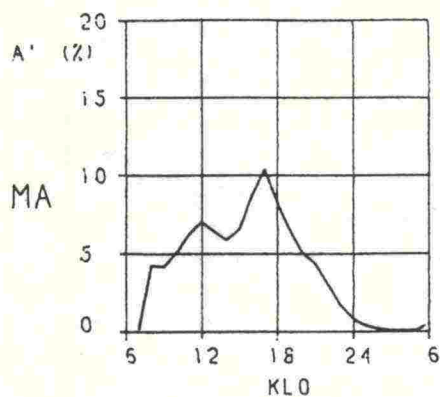


## TUNTIVAIHTELUT

HELMIKUU

HEINAKUU

LOKAKUU

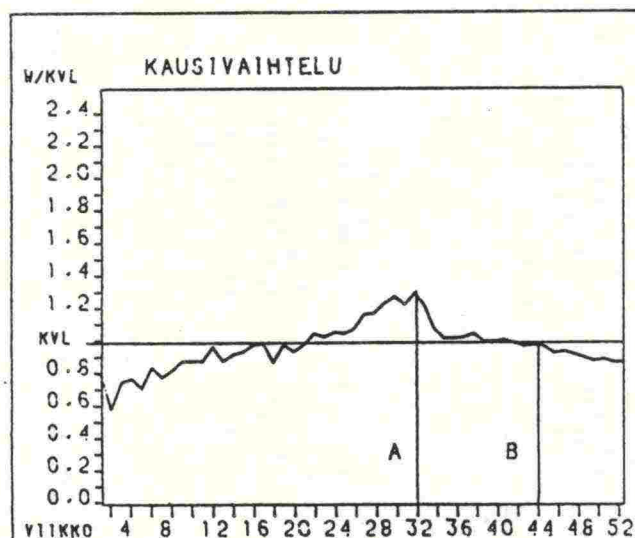
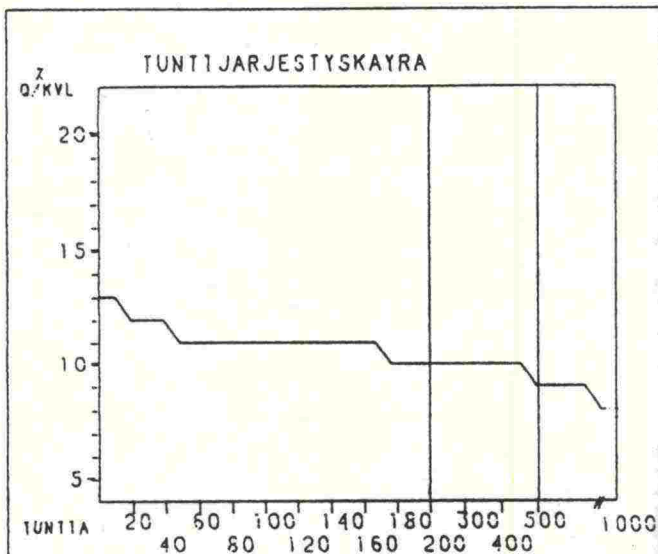
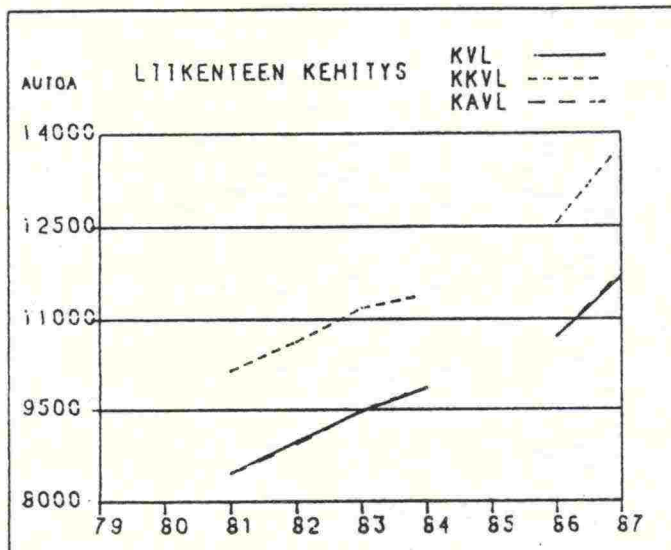
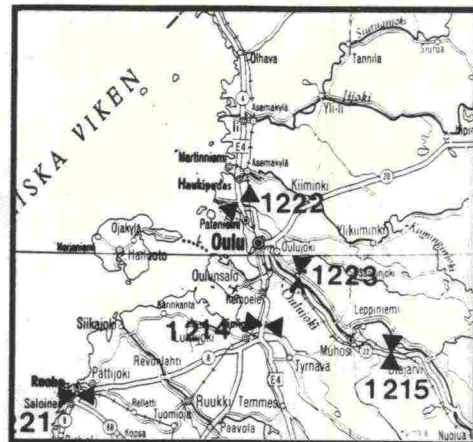


1222HAUKIPUDAS/KELLO 1987  
VT4 TIEOSA 405 ETAISYYS 0.0KM

KVL 11695 B' (SU/KESA) 0.93  
KAVL 11737  
KKVL 13800 D' 1.17

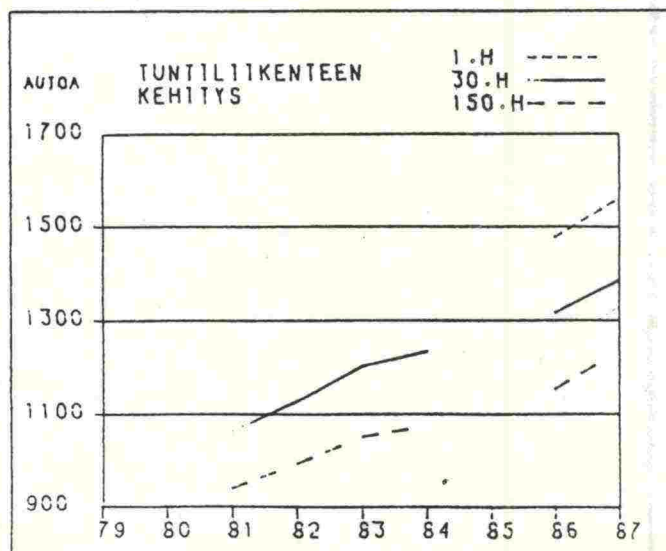
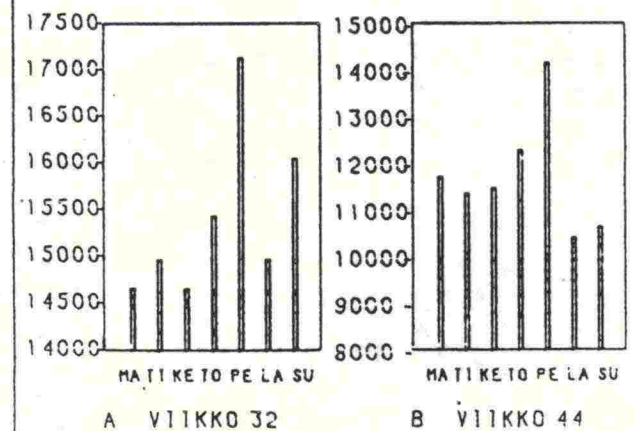
### ARKILIIKENTEN KOOSTUMUS

HA 78% PA 8 %  
LA 3 % KAIP 5 %  
KAPP - % KATP 6 %



H	Q	PE-SU (*)	KERTYMA	HTK
1	1563	100	0.1	0.92
30	1388	87	1.0	0.91
100	1283	60	3.2	0.94
150	1236	50	4.7	0.86
300	1138	41	8.8	0.91
1000	908	43	25.3	0.73
5000	423	40	85.7	0.53

(\*) MONTAKO 2 KO-ENSIMMAISISTA TUNNEISTA OSUU PE-SU-LLE



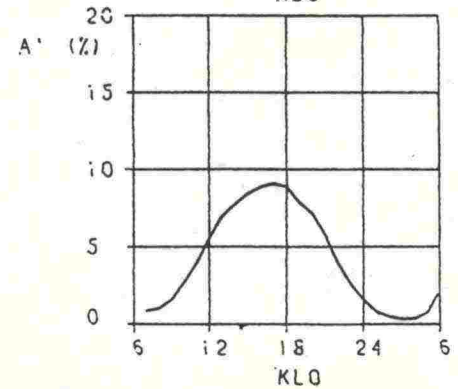
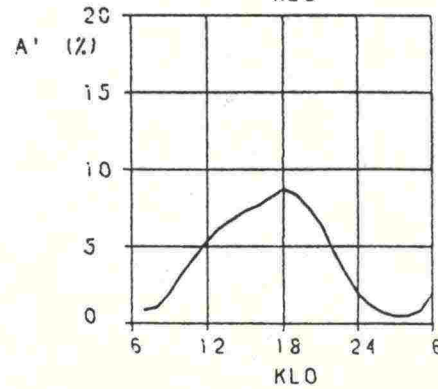
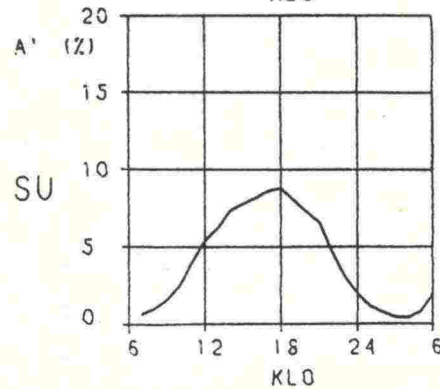
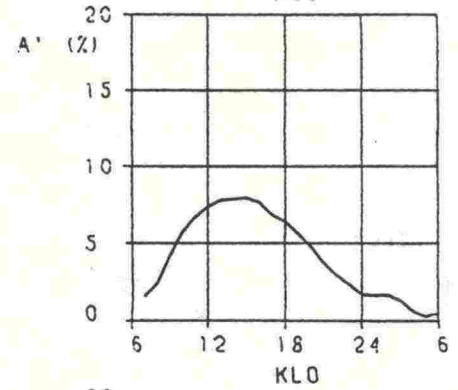
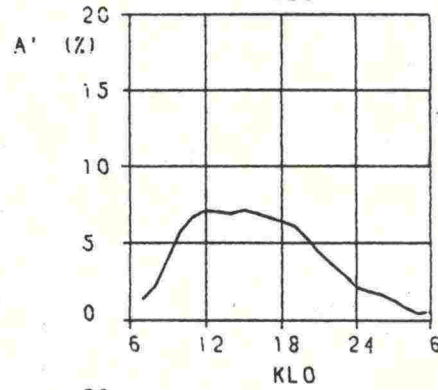
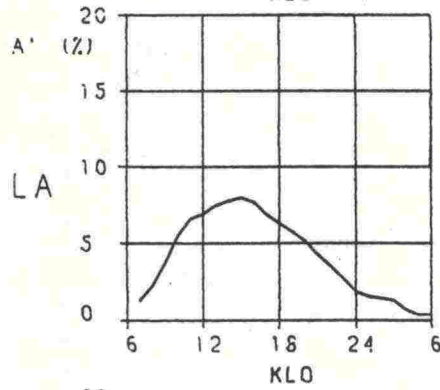
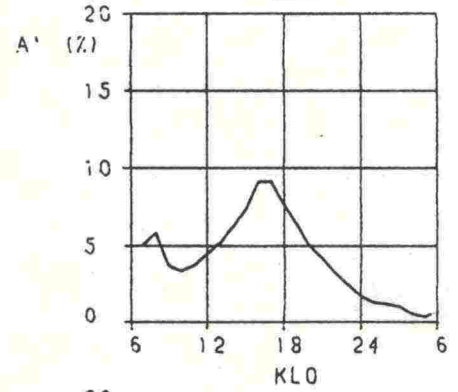
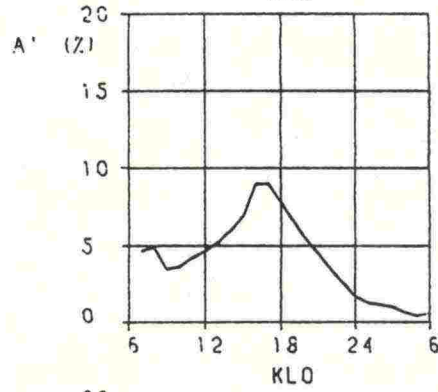
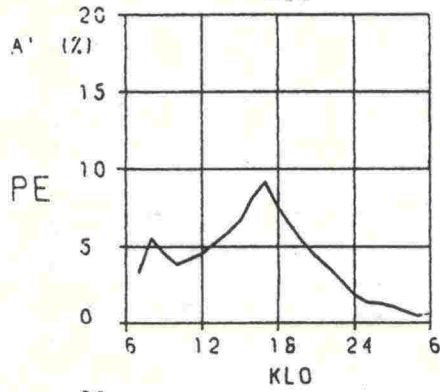
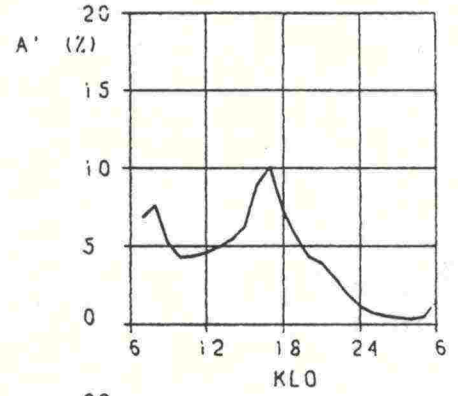
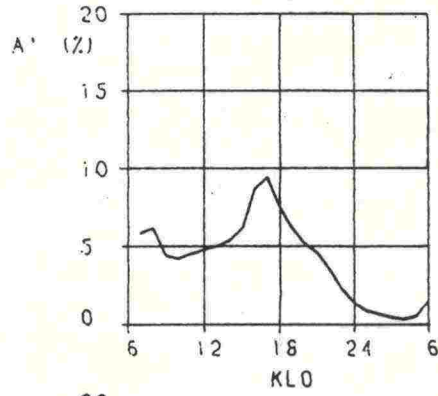
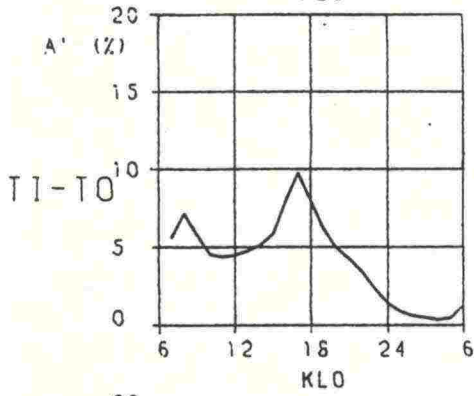
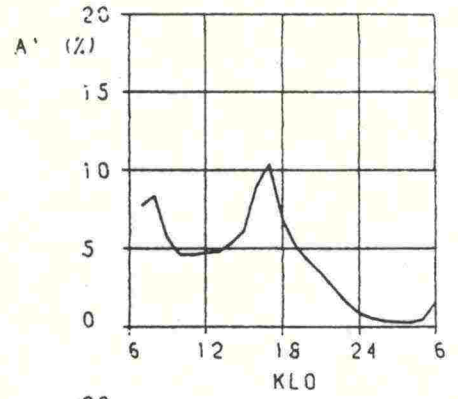
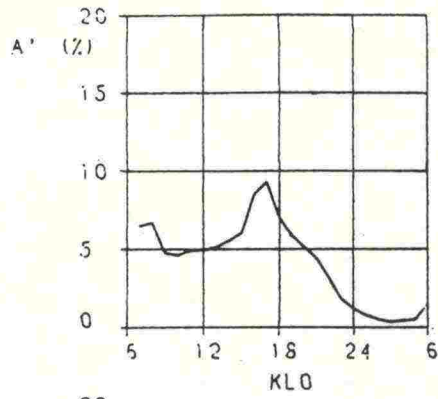
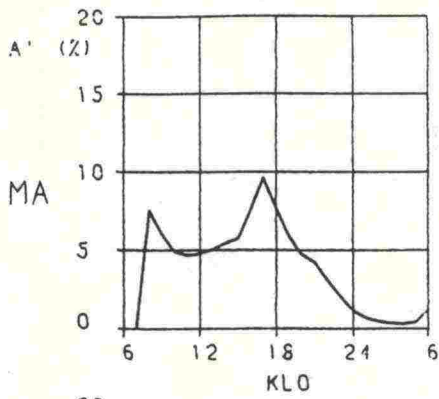


## TUNTIVAIHTELUT

HELMIKUU

HEINAKUU

LOKAKUU



1223HINTTA

1987

KT83

TIEOSA 1

ETAISYYS 0.7 KM

KVL 11838

B' (SU/KESA) 0.78

KAVL 12402

KKVL 12125

D' 1.02

## ARKILIIKENTEN KOOSTUMUS

HA 74%

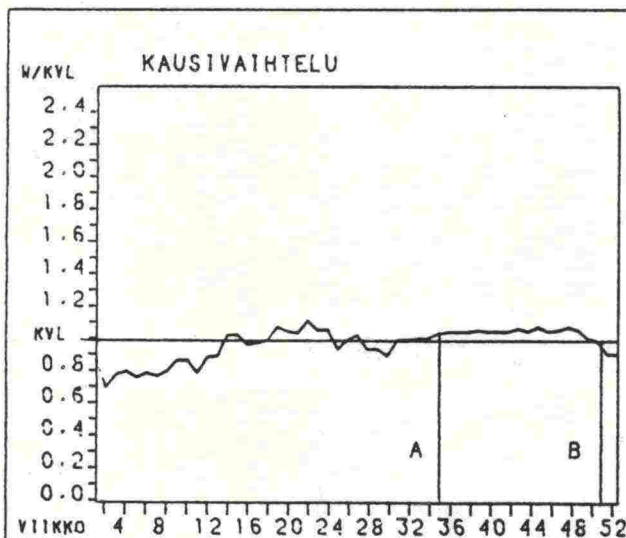
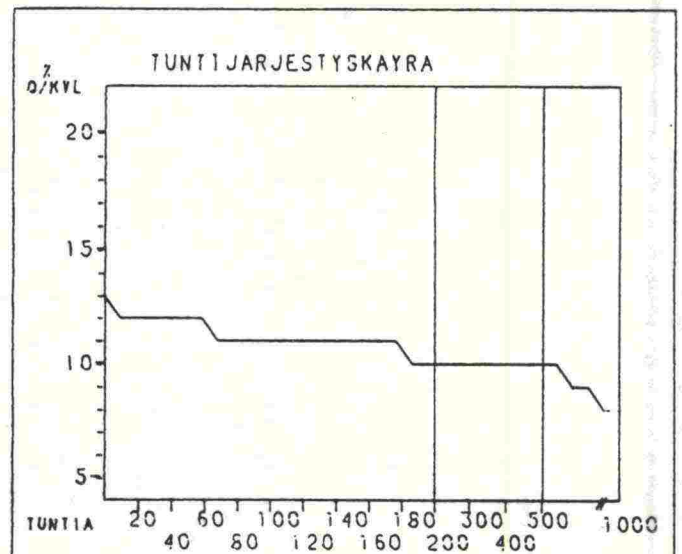
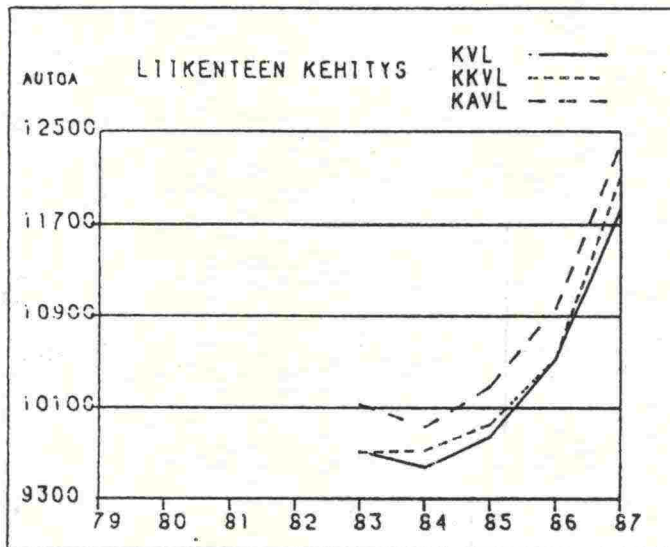
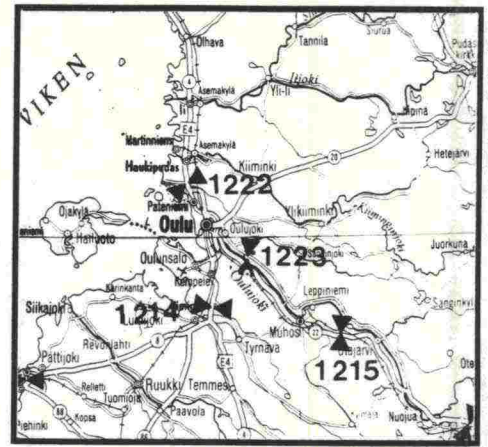
PA 15%

LA 4%

KAIP 7%

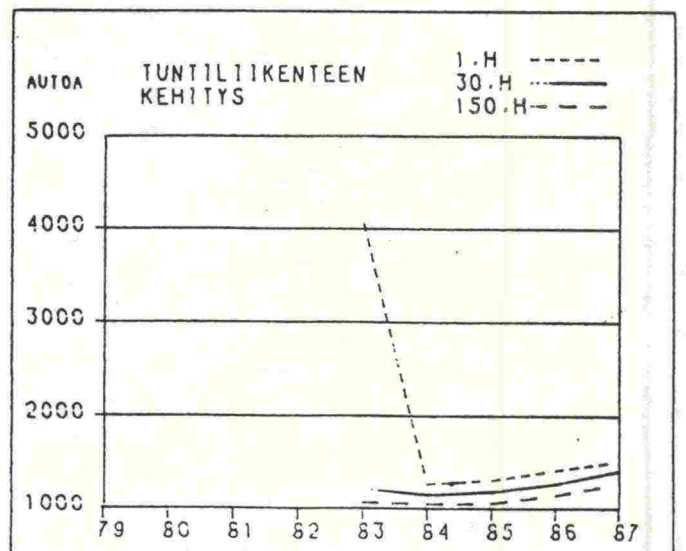
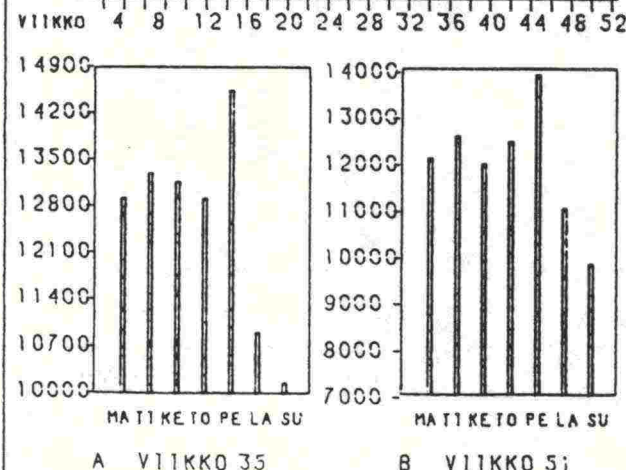
KAPP -%

KATP 0%



H	Q	PE-SU (%)	KERTYMA	HTK
1	1520	100	0.1	0.89
30	1416	40	1.0	0.91
100	1332	36	3.2	0.90
150	1274	33	4.7	0.82
300	1163	28	8.9	0.78
1000	925	30	25.6	0.88
5000	445	38	86.8	0.73

(\*) MONTAKO % KO-ENSIMMAISISTA TUNNEISTA OSUU PE-SU:LE



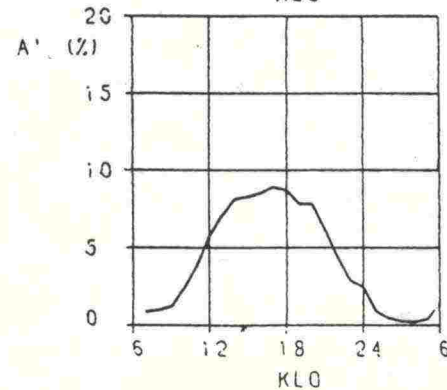
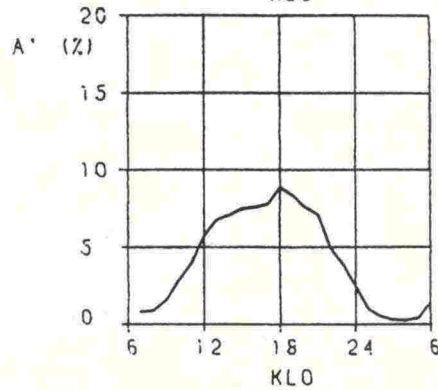
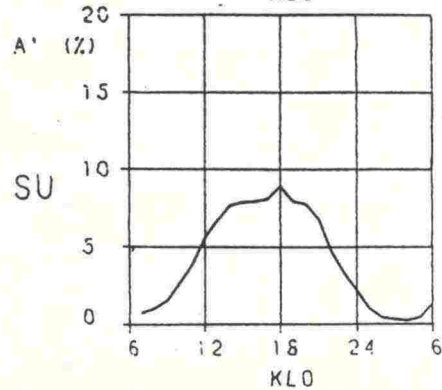
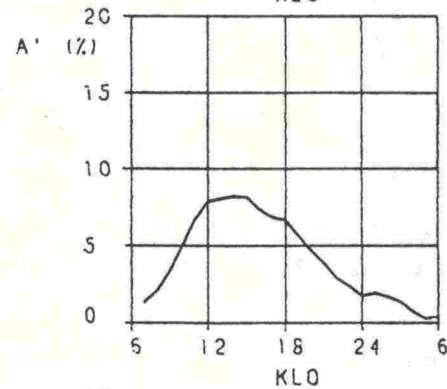
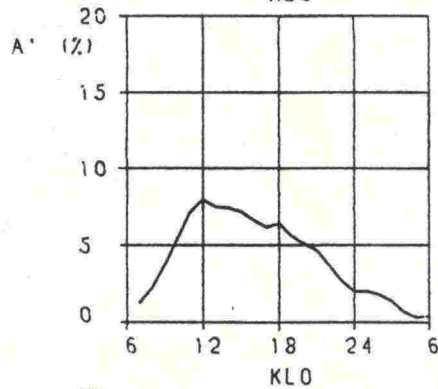
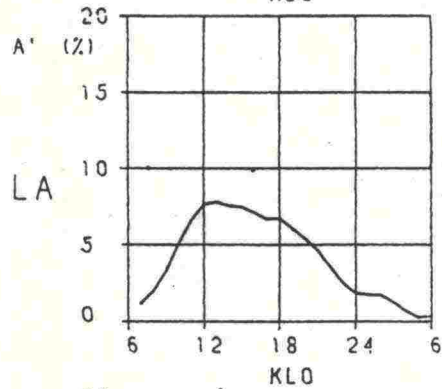
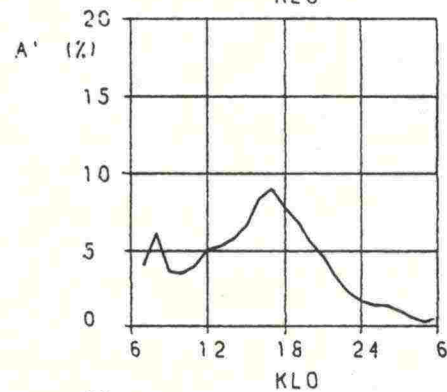
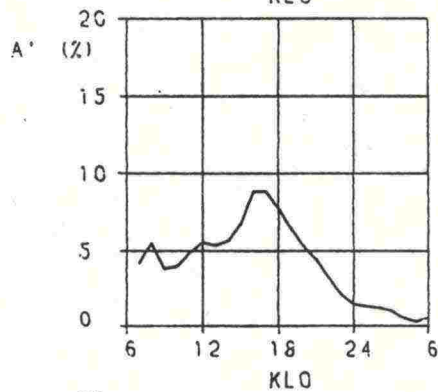
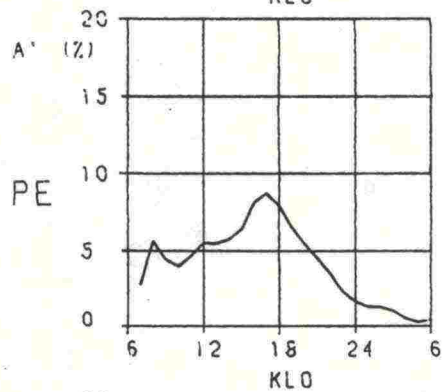
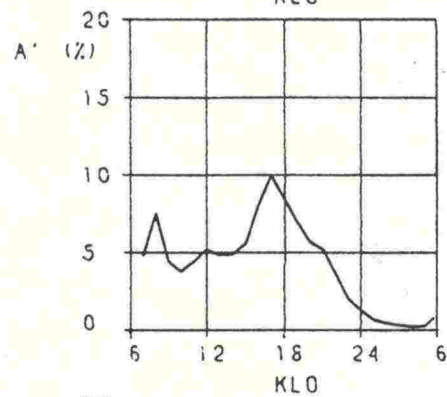
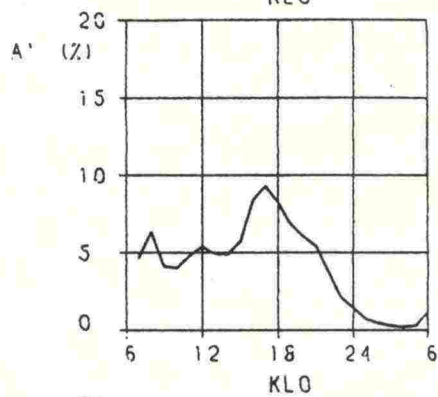
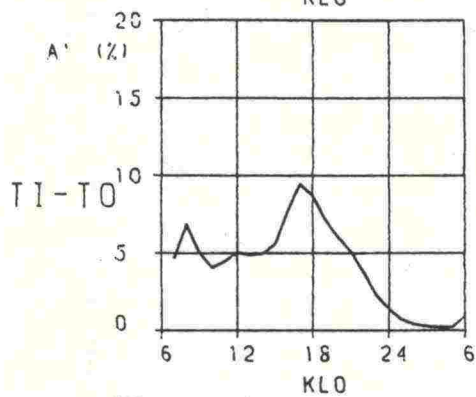
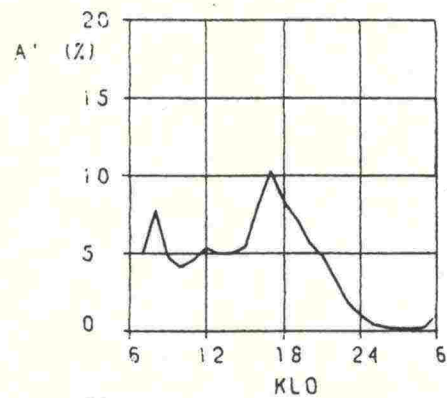
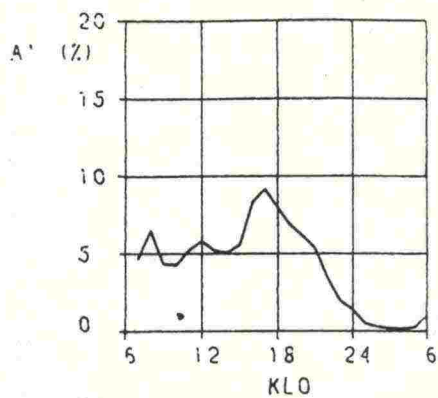
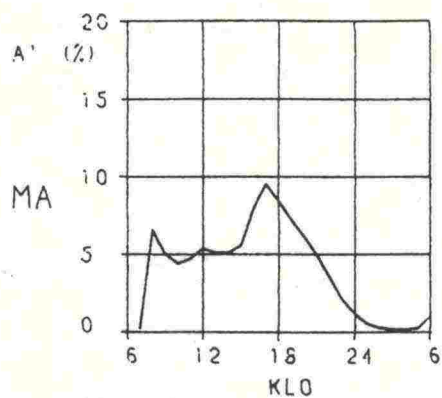


## TUNTIVAIHTELUT

HELMIKUU

HEINAKUU

LOKAKUU



1315KAJAANI

1987

MT994 TIEOSA 1 ETAISYYS 1.1 KM

KVL 1537 B' (SU/KESA) 0.95

KAVL 1608

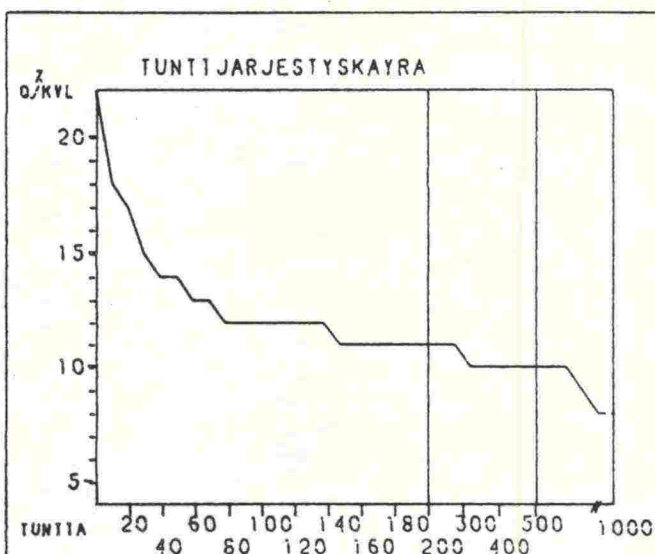
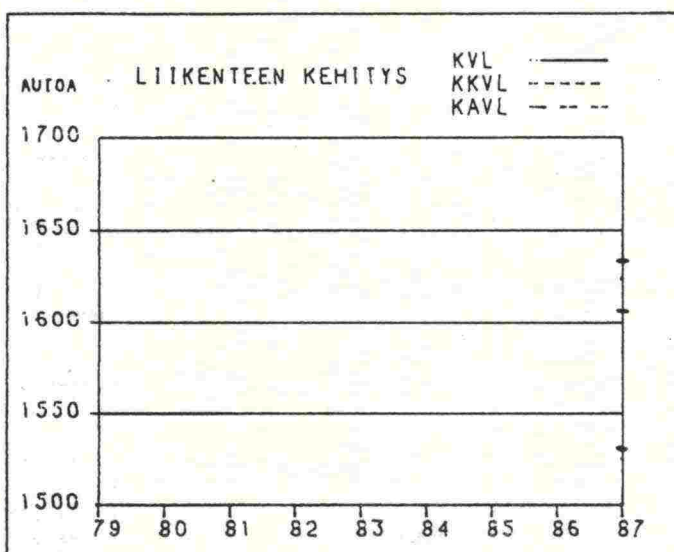
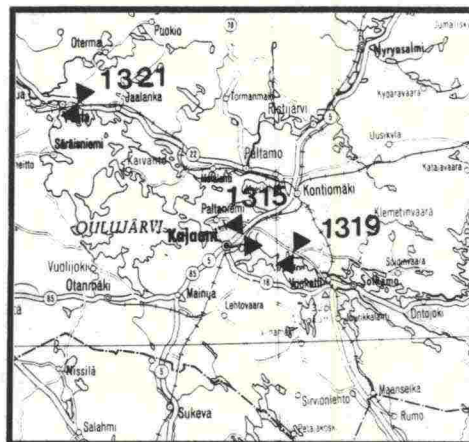
KKVL 1637 D' 1.06

## ARKILIIKENTEEN KOOSTUMUS

HA 83% PA 6%

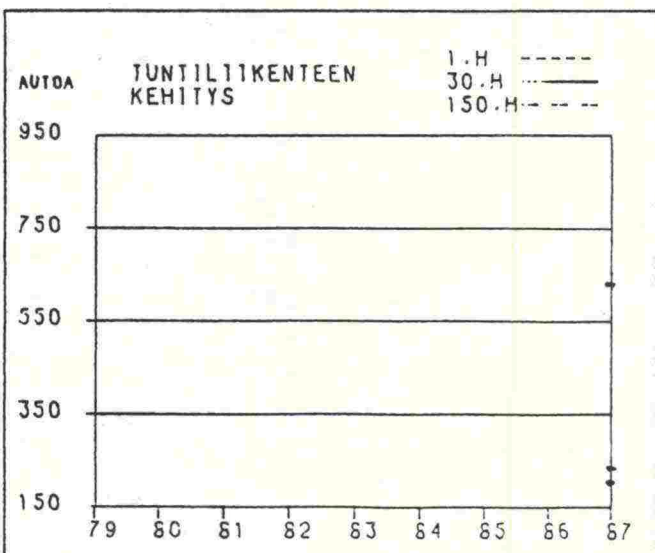
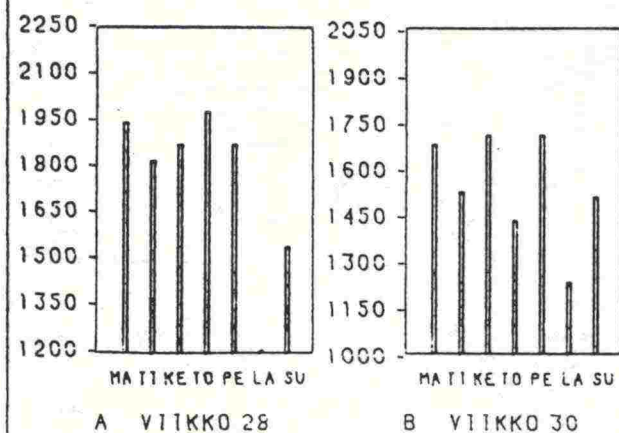
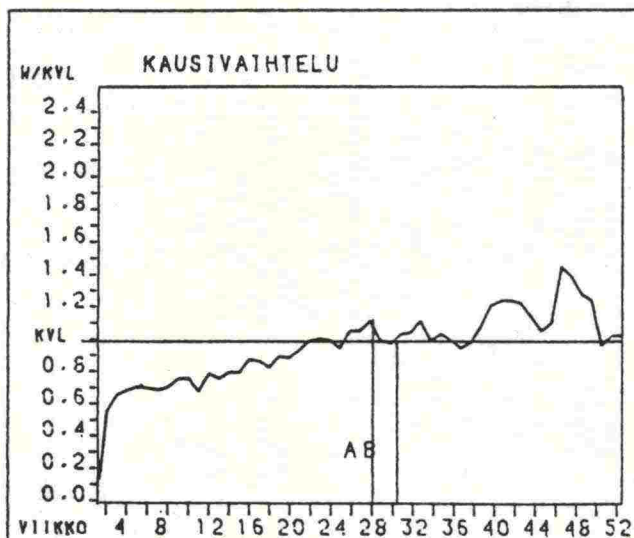
LA 0% KAIP 8%

KAPP -% KATP 3%



H	Q	PE-SU (%)	KERTYMA	H7K
1	622	100	0.1	0.80
30	227	27	1.6	0.55
100	186	39	4.1	0.93
150	175	42	5.7	-
300	156	39	10.1	0.78
1000	120	40	27.0	0.79
5000	54	39	87.4	0.79

(\*) MONTAKO 2 KO-ENSIMMAISISTA TUNNEISTA OSUU PE-SU:LE



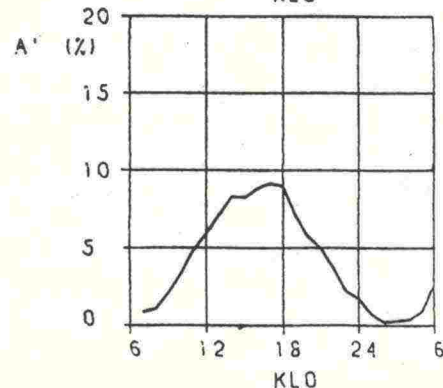
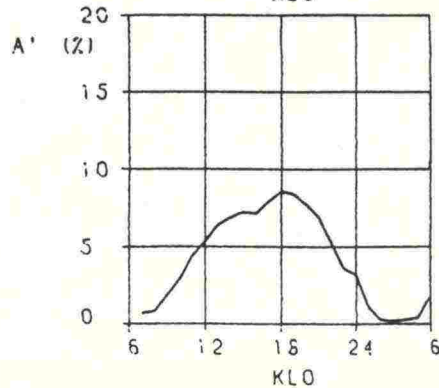
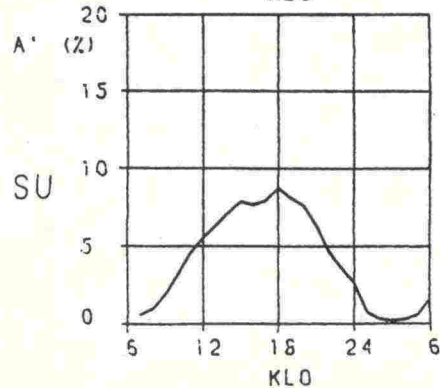
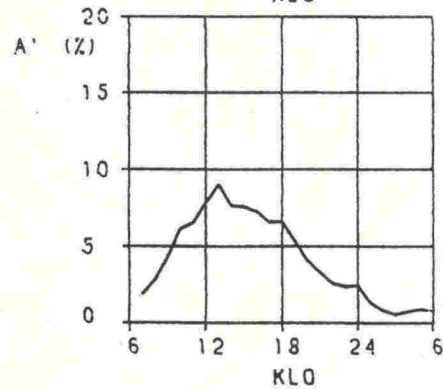
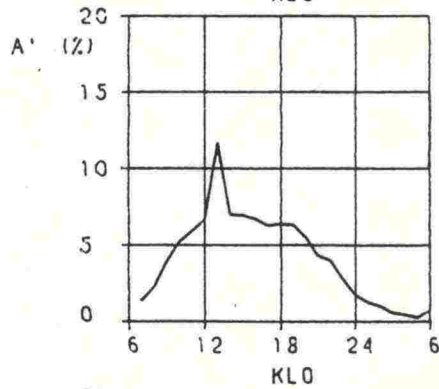
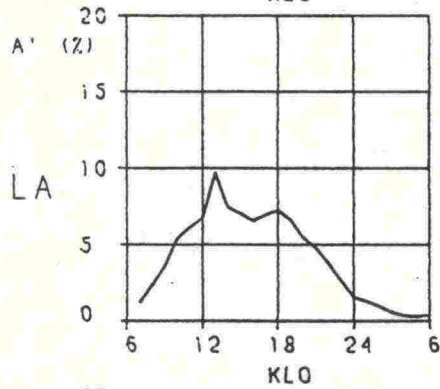
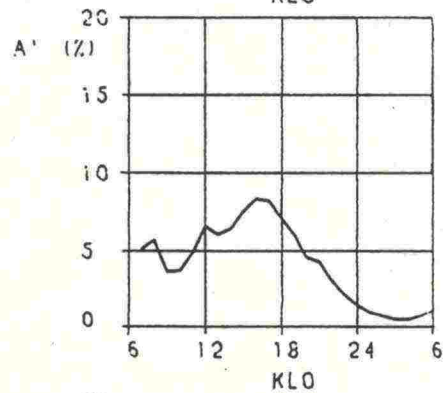
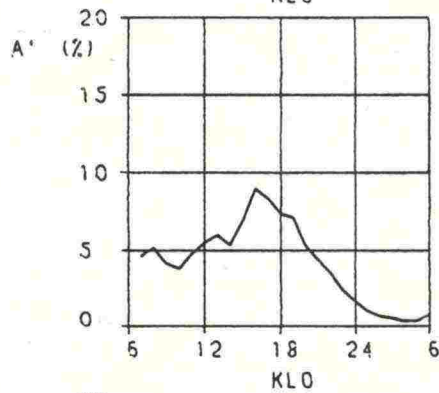
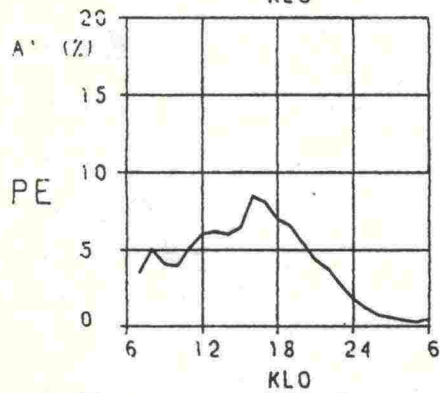
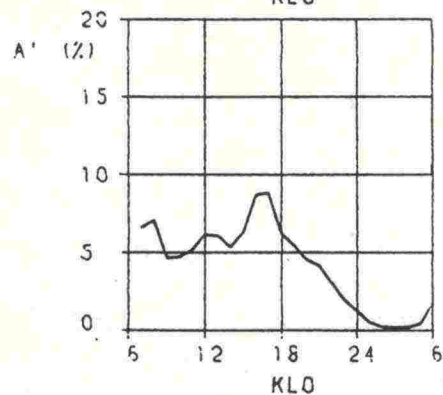
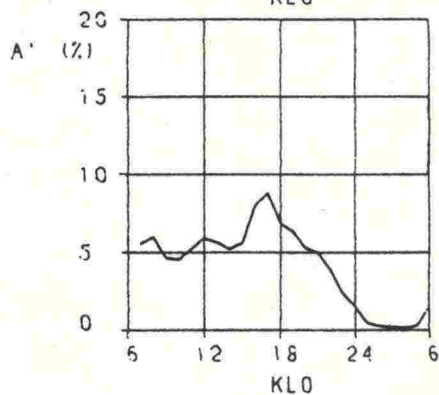
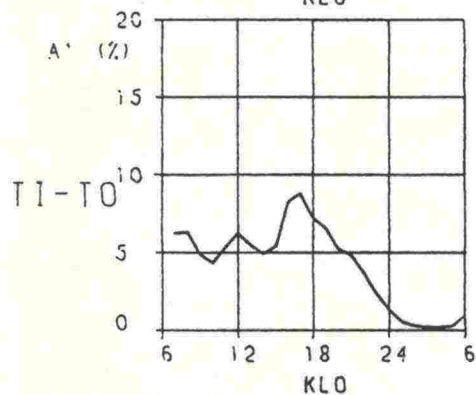
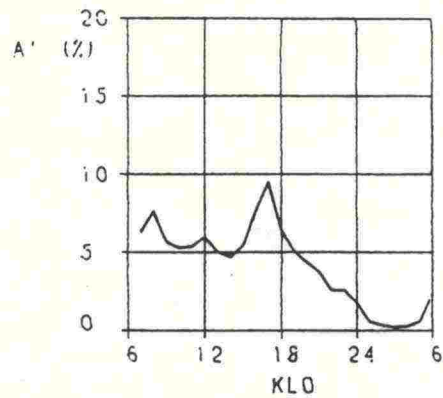
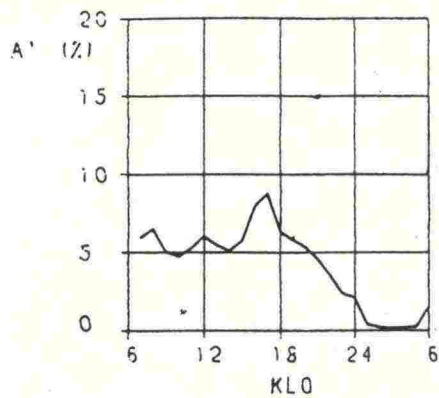
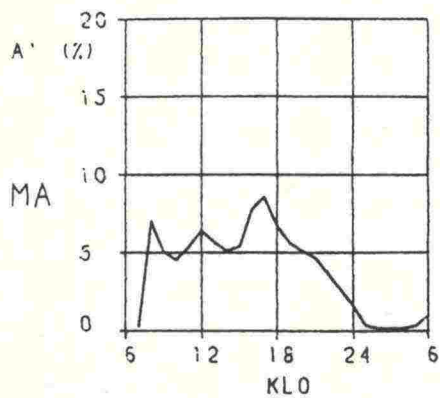


## TUNTIVAIHTELU

HELMIKUU

HEINAKUU

LOKAKUU



1317SUOMUSSALMI

1987

VT5

TIEOSA 324 ETAISYYS 2.7 KM

KVL 4691

B' (SU/KESA) 0.73

KAVL 4849

KKVL 5566

D' 1.18

## ARKILIIKENTEN KOOSTUMUS

HA 86 %

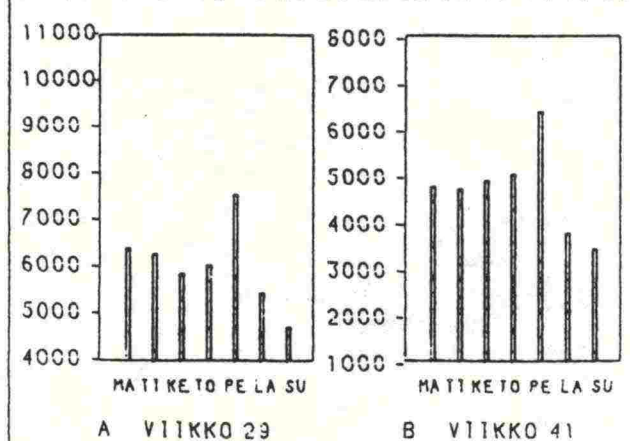
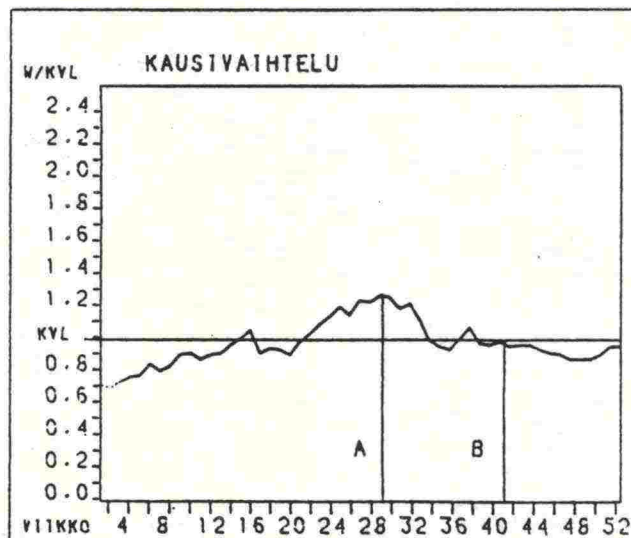
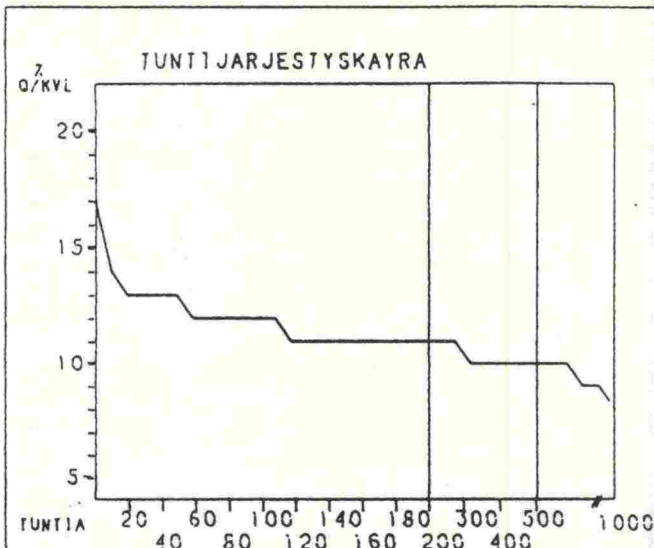
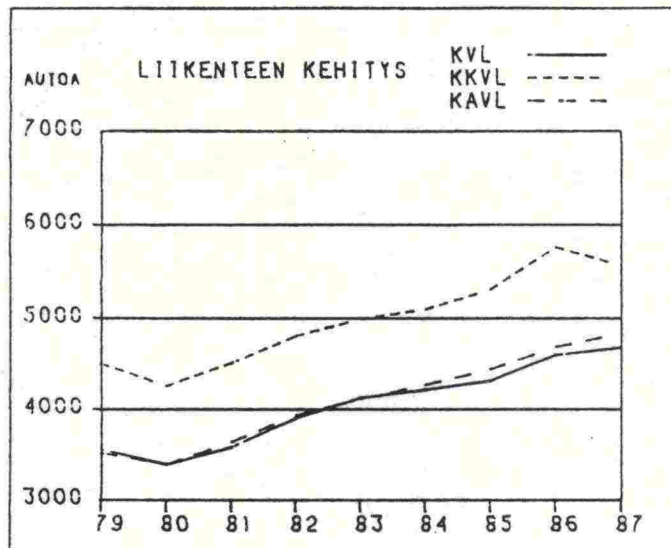
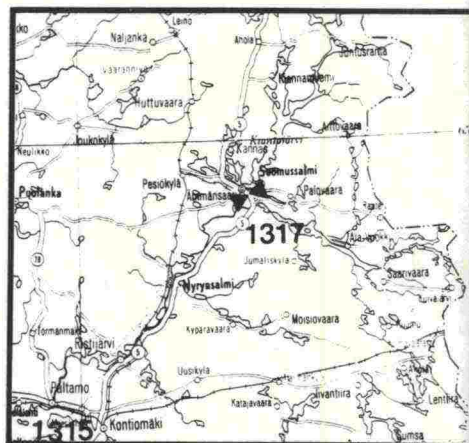
PA 6 %

LA 2 %

KAIP 4 %

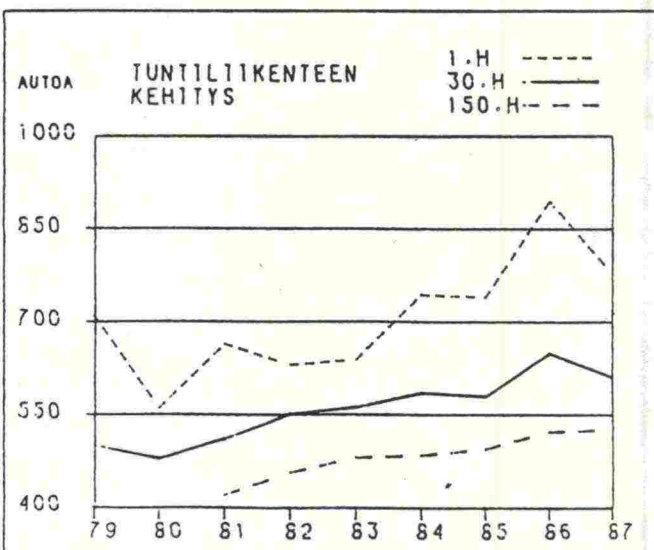
KAPP - %

KATP 2 %



H	Q	PE-SU (%)	KERTYMA	HTK
1	778	100	0.1	0.90
30	611	73	1.1	-
100	545	59	3.5	-
150	527	57	5.1	0.64
300	481	48	9.4	-
1000	378	35	26.7	0.69
5000	159	40	88.3	0.52

(\*) MONTAKO Z KO-ENSIMMAISISTA TUNNEISTA OSUUS PE-SU-LLE



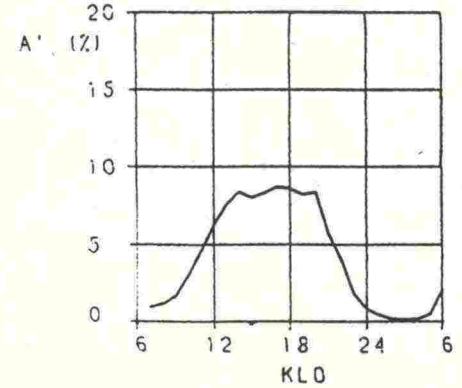
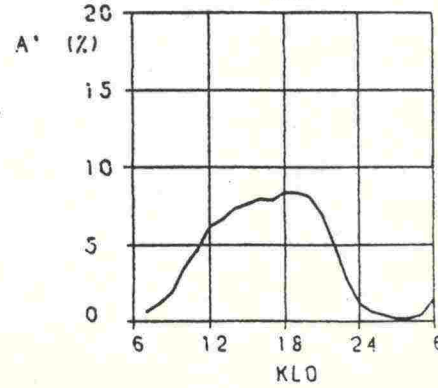
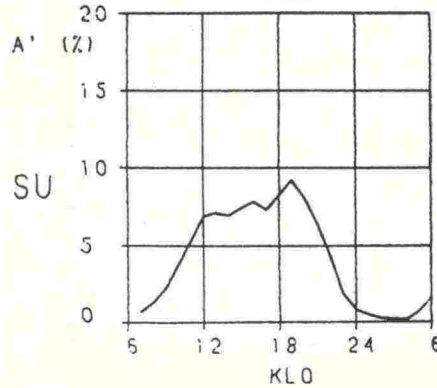
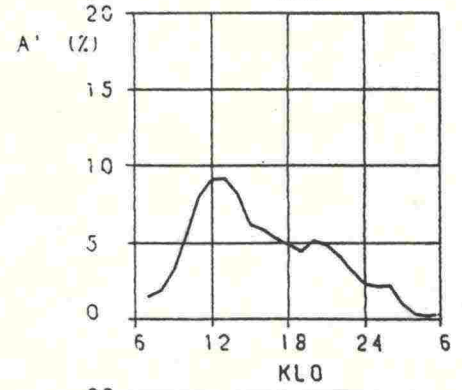
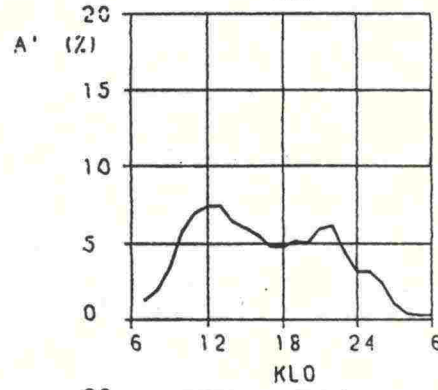
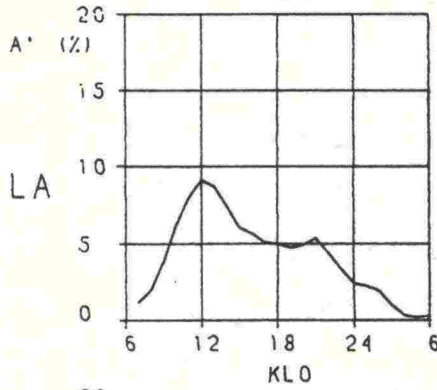
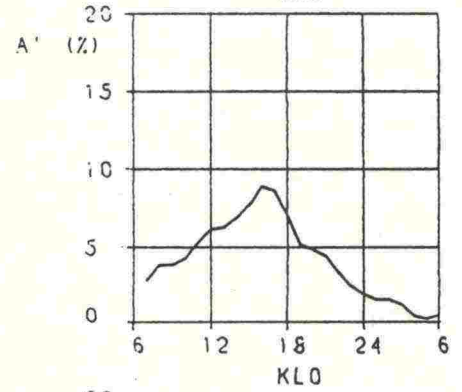
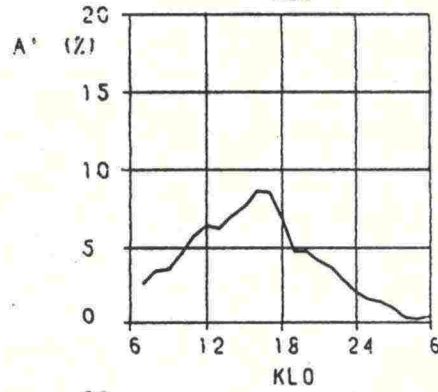
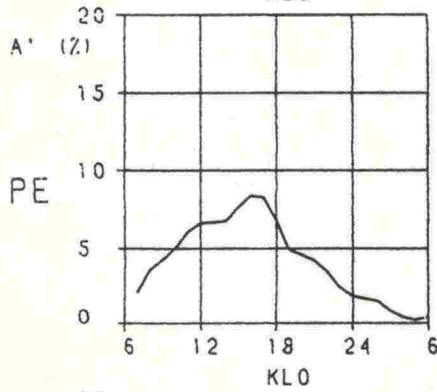
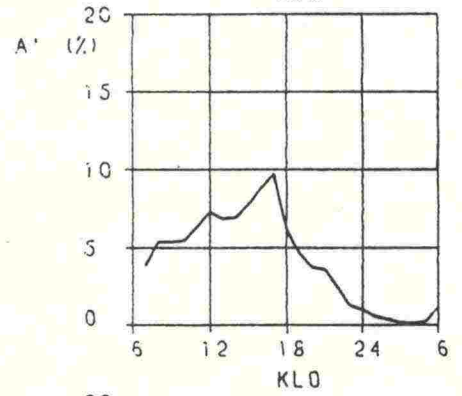
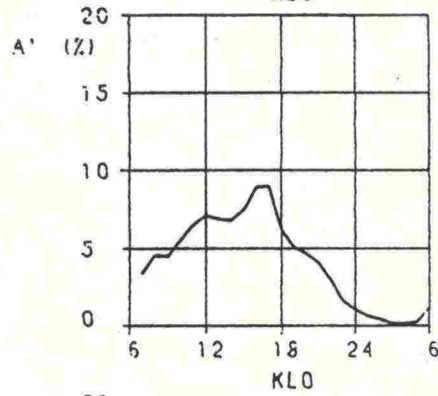
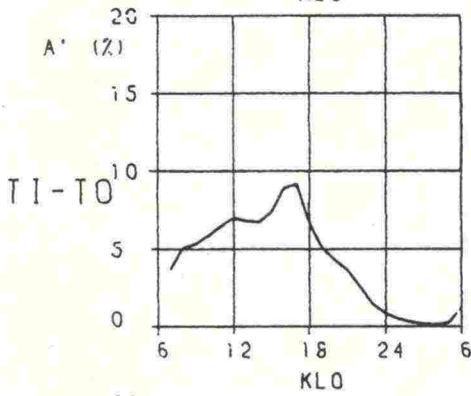
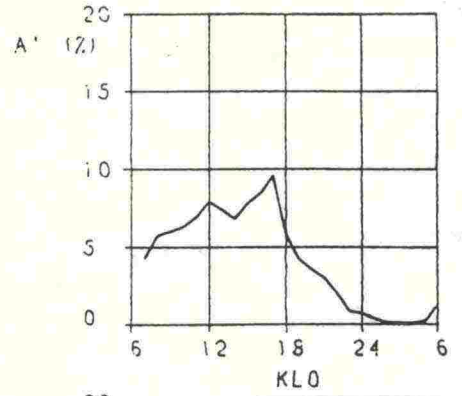
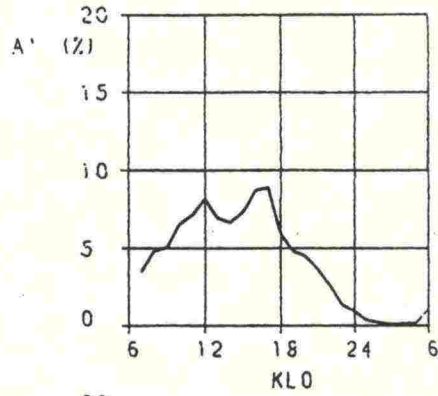
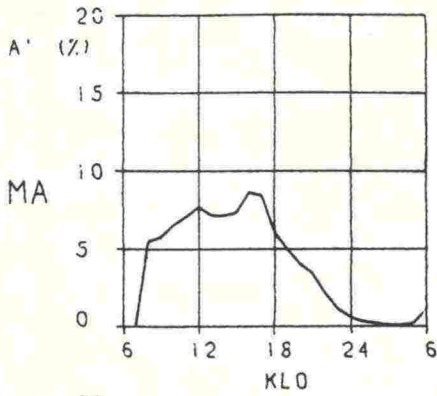


# TUNTIVAIHTELUT

HELMIKUU

HEINAKUU

LOKAKUU

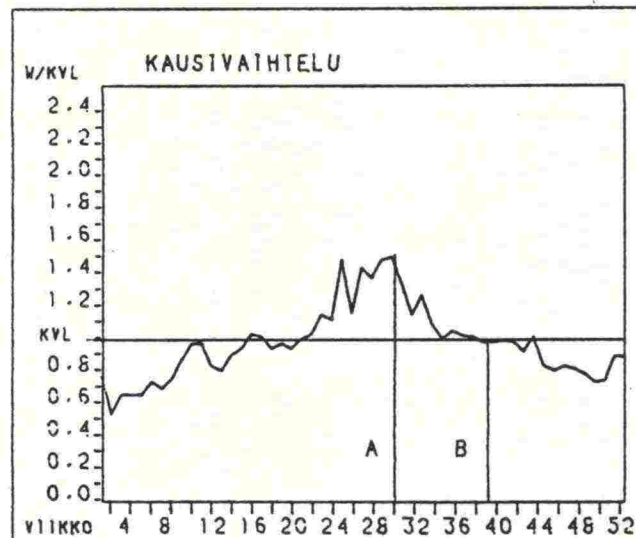
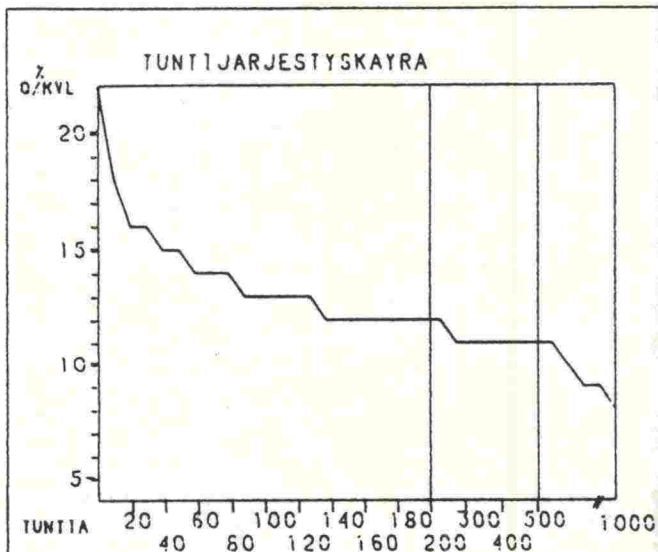
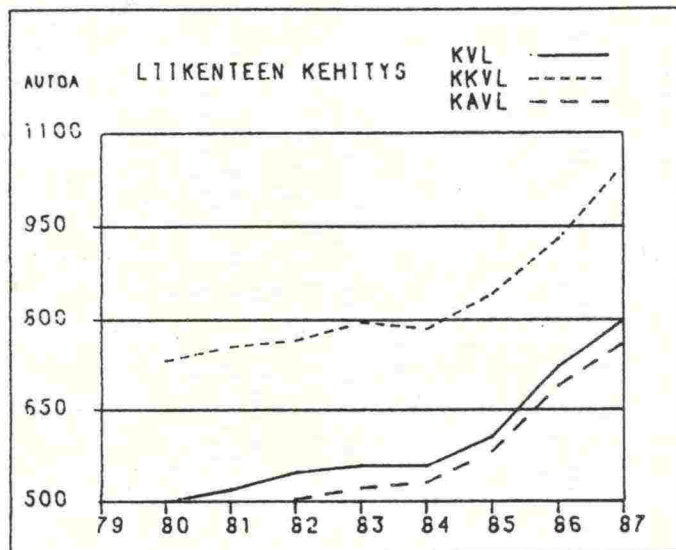
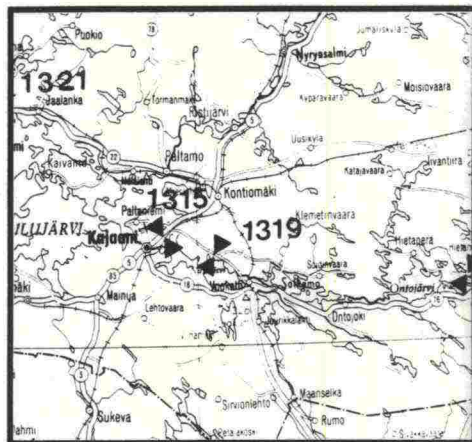


1319SOTKAMO/KONAPPA 1987  
MT899 TIEOSA 5 ETAISYYS 0.0KM

KVL 802 B' (SU/KESA) 1.14  
KAVL 763  
KKVL 1048 D' 1.30

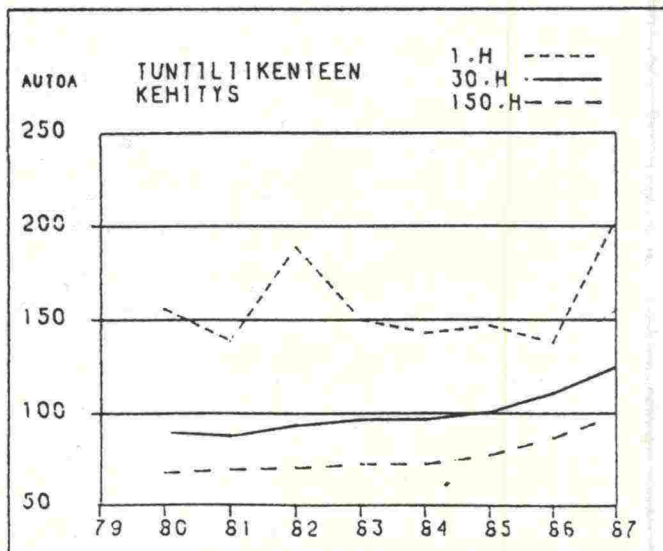
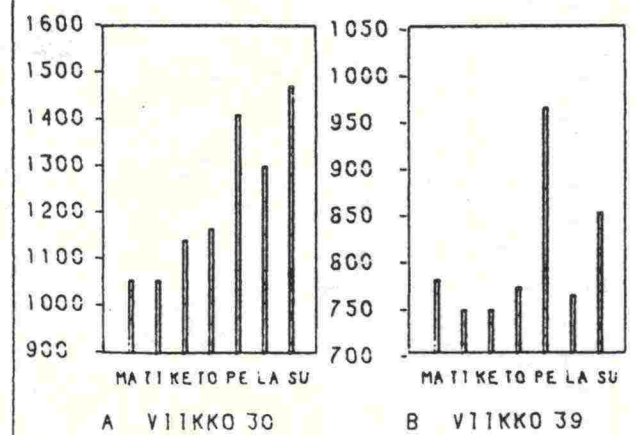
# ARKILIIKENTEN KOOSTUMUS

HA 82% PA 6%  
LA 3% KAIP 4%  
KAPP 1% KATP 4%



H	Q	PE-SU (*)	KERTYMA	HTK
1	204	100	0.1	0.66
30	125	83	1.4	0.87
100	107	80	4.2	0.86
150	99	79	5.9	0.75
300	88	76	10.6	0.67
1000	66	61	28.5	0.63
5000	26	42	89.1	-

(\*) MONTAKO % KO. ENSIMMAISISTA TUNNEISTA OSUU PE-SU: LLE



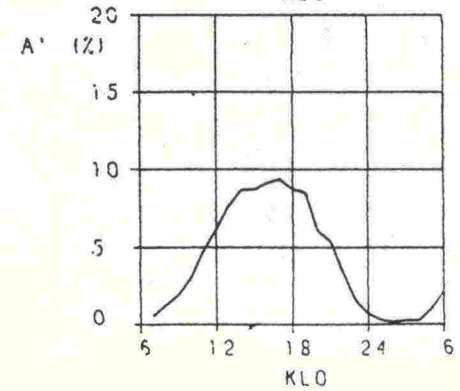
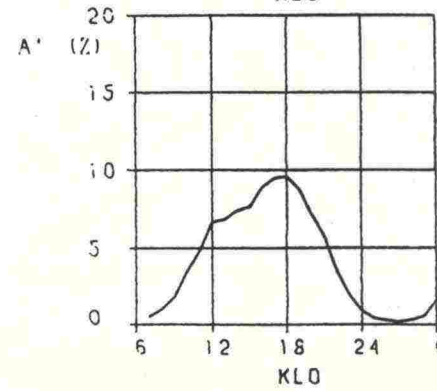
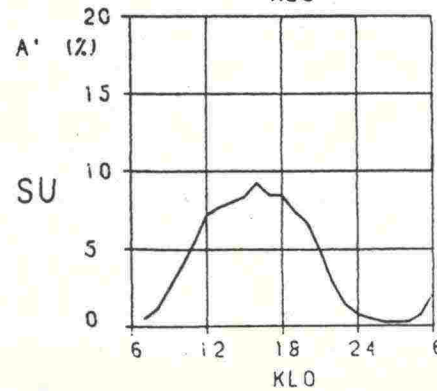
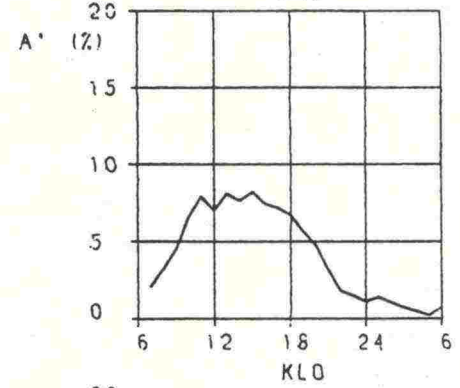
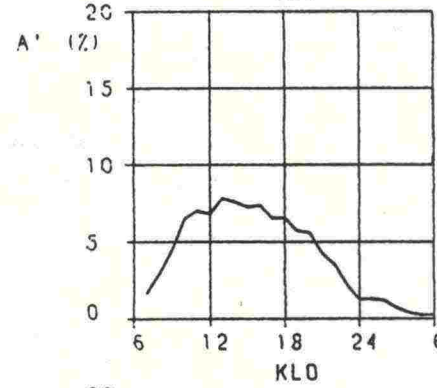
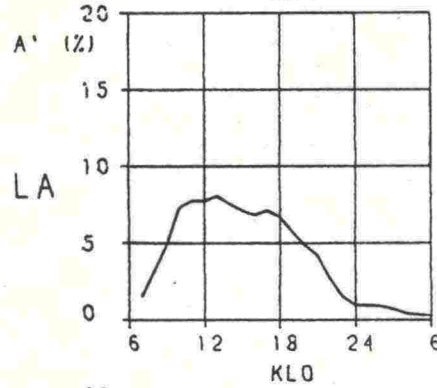
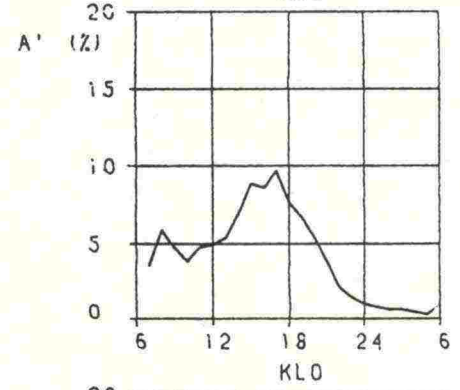
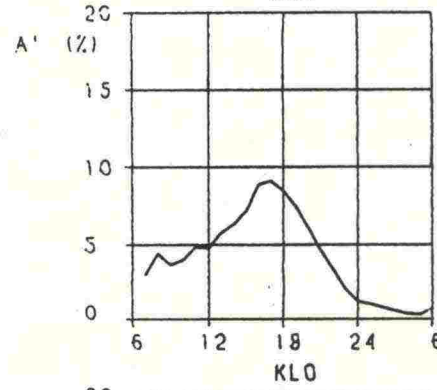
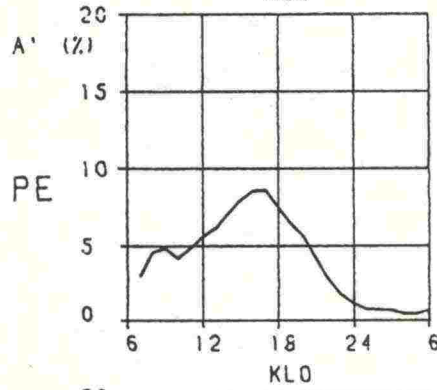
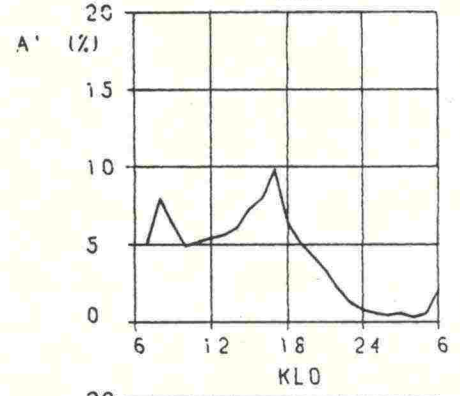
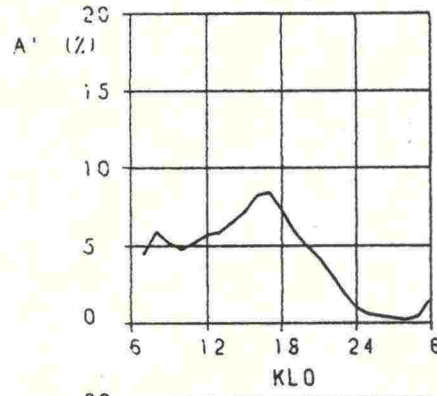
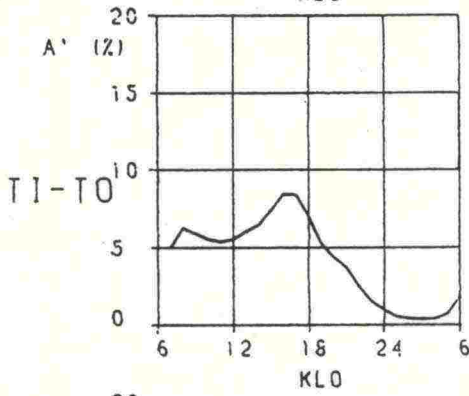
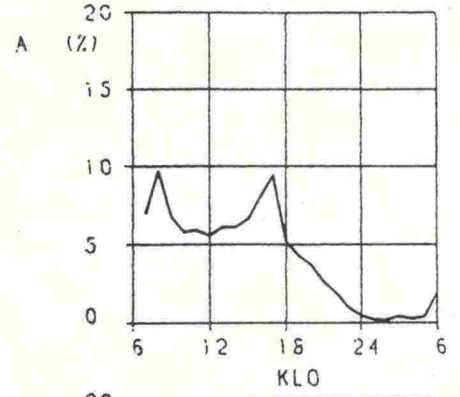
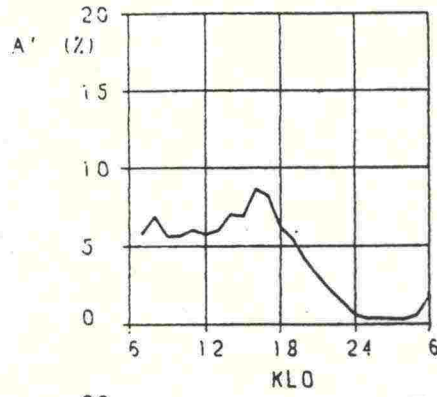
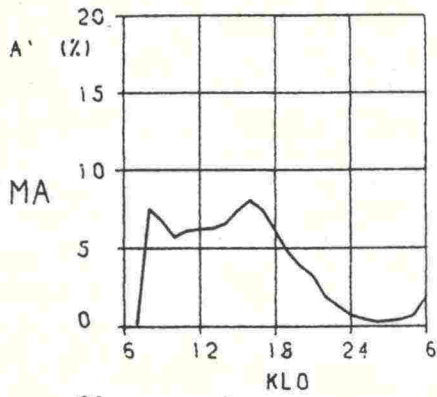


## TUNTIVAIHTELUT

HELMIKUU

HEINAKUU

LOKAKUU



1320KUUMO

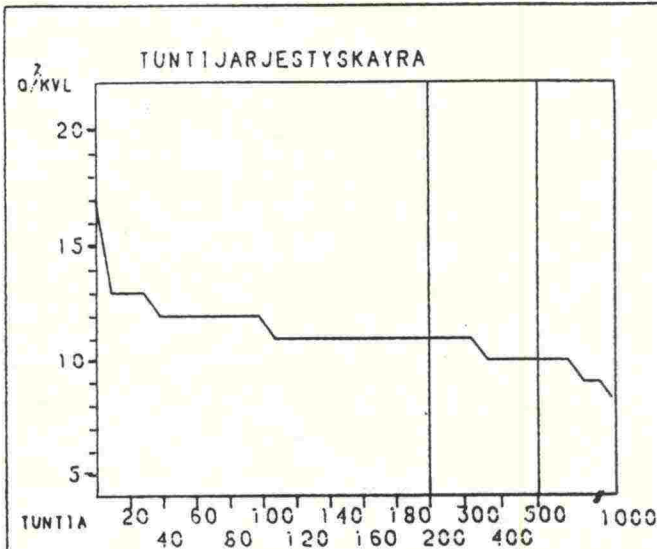
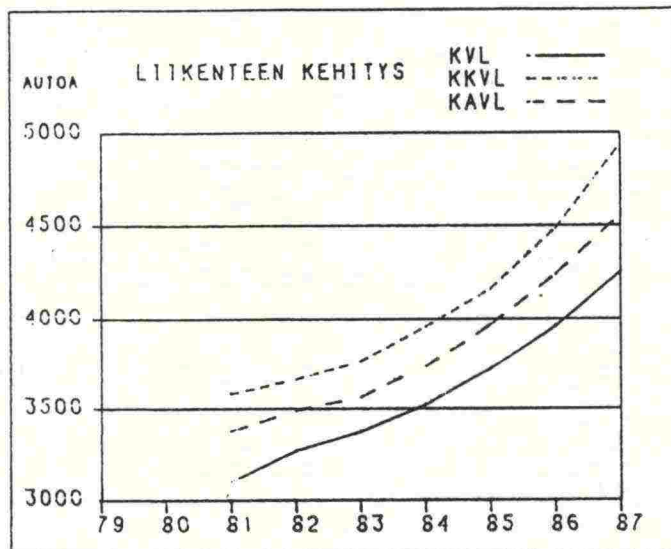
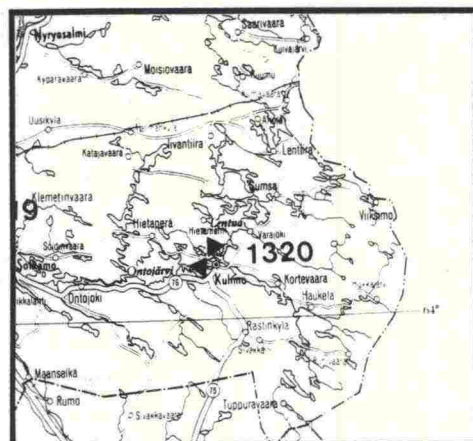
1987

MT900 TIEOSA 13 ETAISYYS 2.3KM

KVL 4258 B' (SU/KESA) 0.71  
 KAVL 4559  
 KKVL 4940 D' 1.15

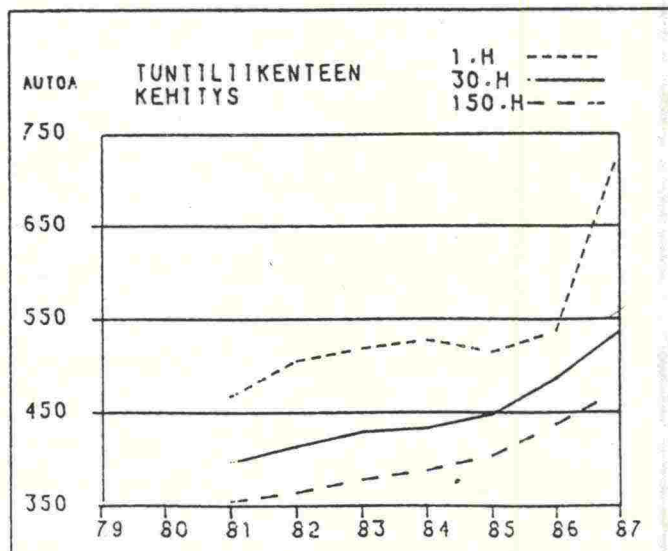
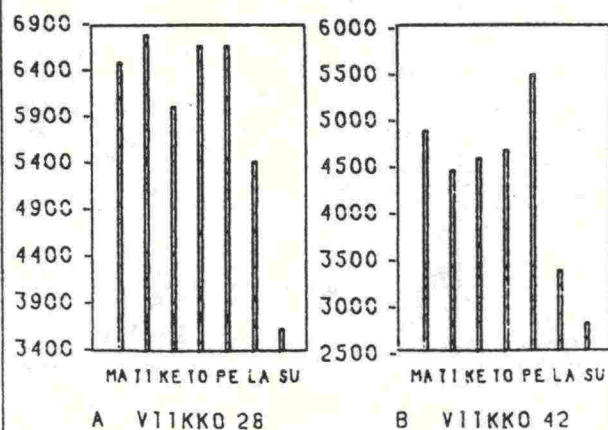
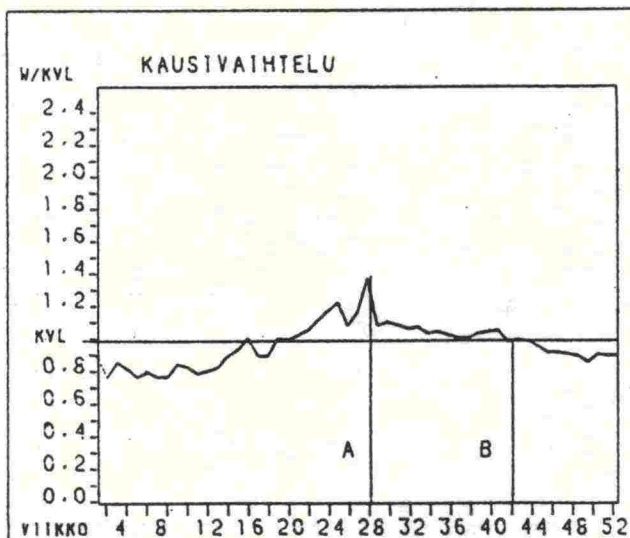
## ARKILIIKENTEN KOOSTUMUS

HA 83% PA 9%  
 LA 1% KAIP 5%  
 KAPP --% KATP 2%



H	Q	PE-SU (*) KERTYMA	HTK
1	733	100	0.1
30	537	40	1.1
100	493	41	3.4
150	474	39	5.0
300	443	33	9.4
1000	354	29	27.0
5000	138	40	90.6

(\*) MONTAKO Z. KO-ENSIMMAISISTA TUNNEISTA OSUU PE-SU-LLE

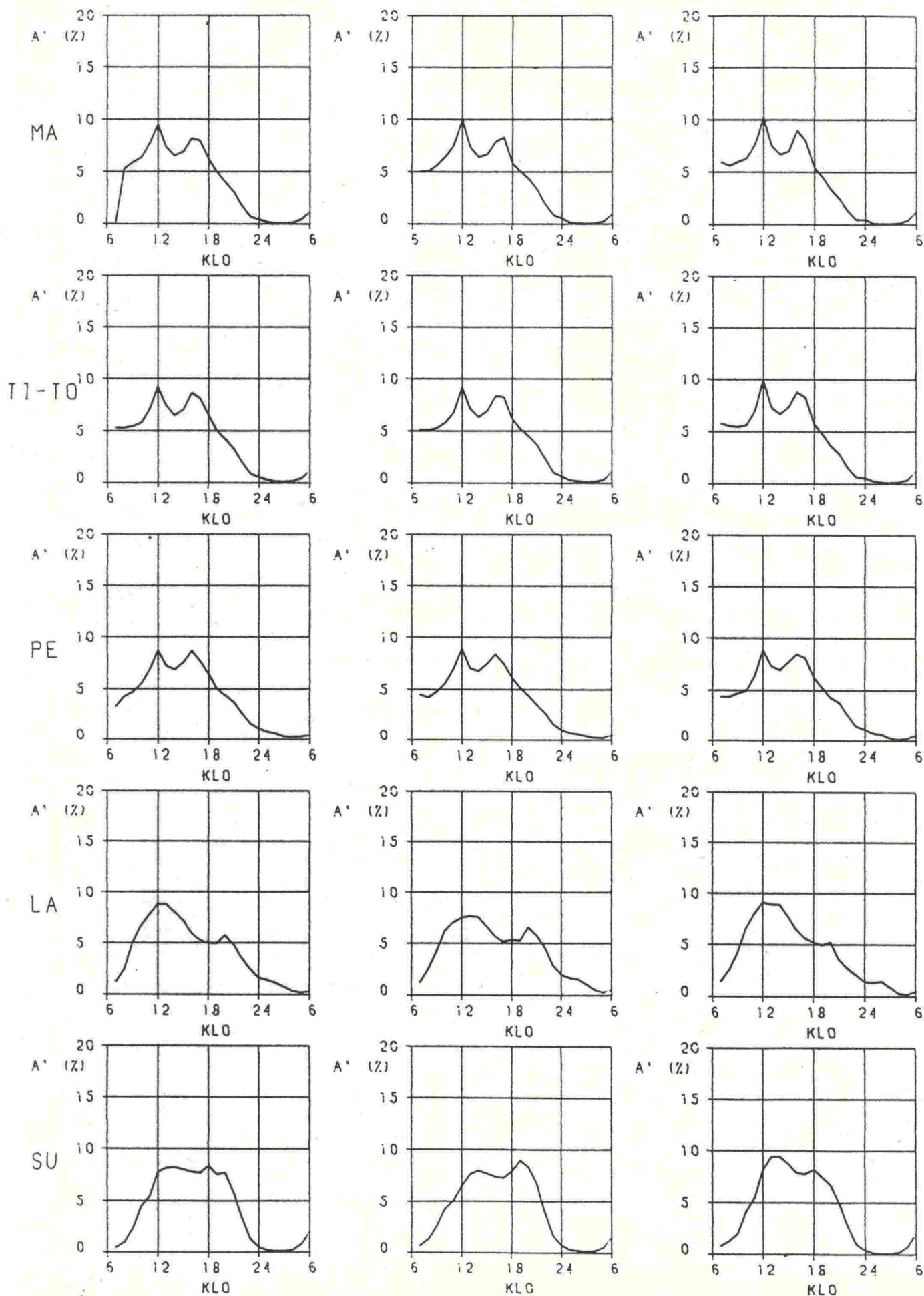




HELMIKUU

HEINAKUU

LOKAKUU



1321 TORMÄKYLÄ

1987

VT22

TIEOSA 17

ETAISYYS 1.7 KM

KVL 1254

B' (SU/KESA) 1.17

KAVL 1148

KKVL 1660

D' 1.32

## ARKILIIKENTEEN KOOSTUMUS

HA 80 %

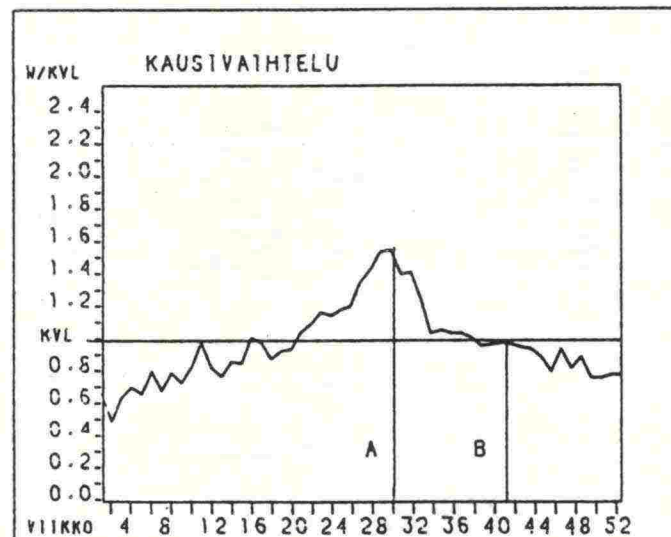
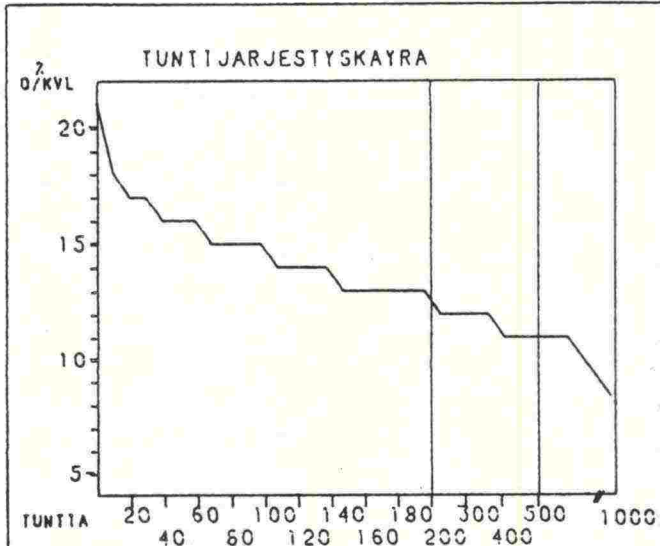
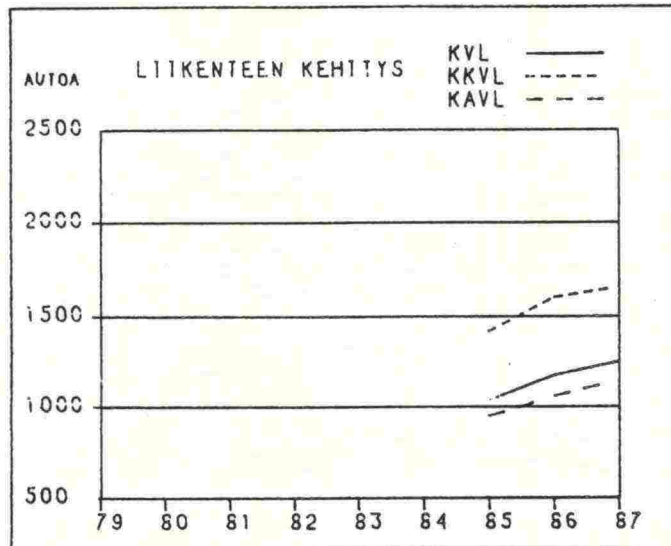
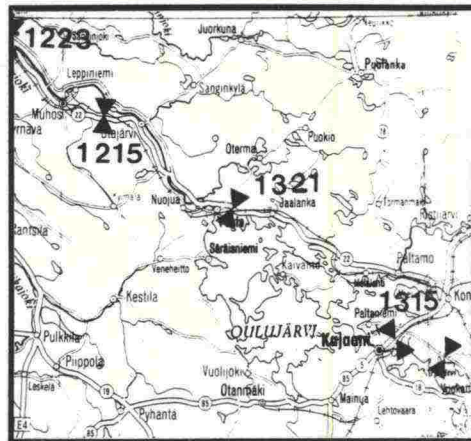
PA 4 %

LA 1 %

KAIP 4 %

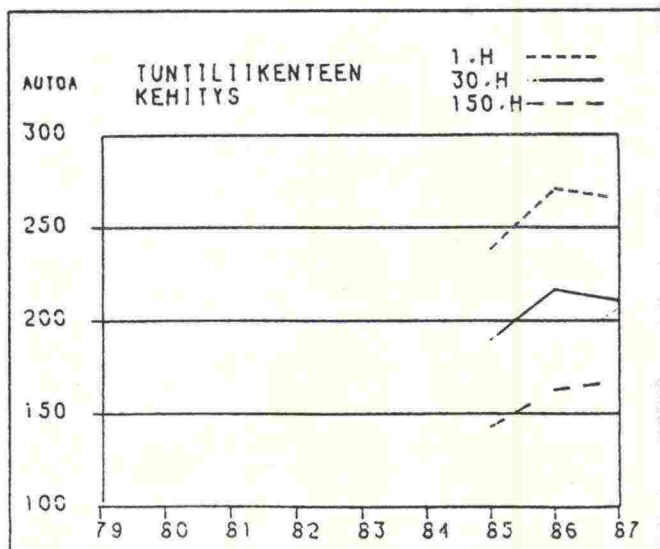
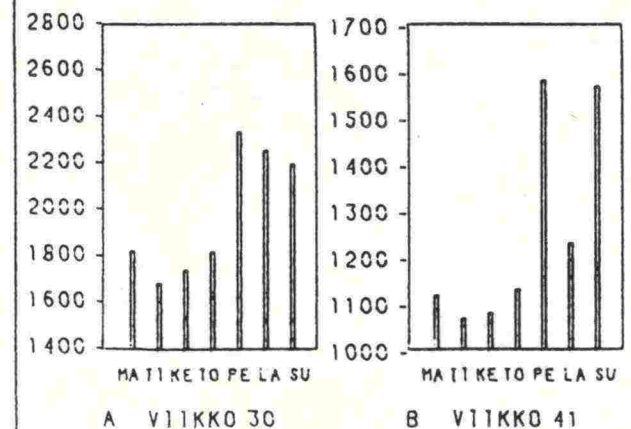
KAPP 1 %

KATP 10 %



H	Q	PE-SU (•KERTYMA	HTK
1	266	100	0.1
30	266	100	0.1
100	182	97	4.5
150	168	95	6.4
300	144	90	11.4
1000	102	68	29.6
5000	38	43	88.6

(•) MONTAKO 2 KO-ENSIMMAISISTA TUNNEISTA OSUU PE-SU:ALLE

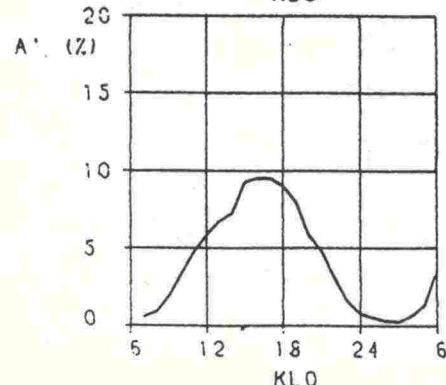
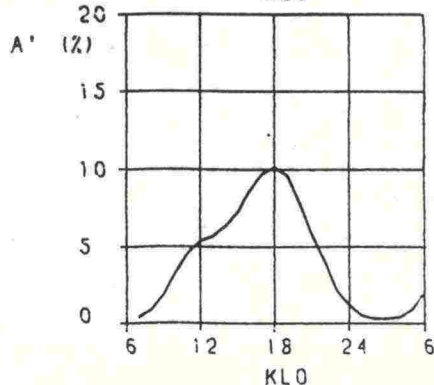
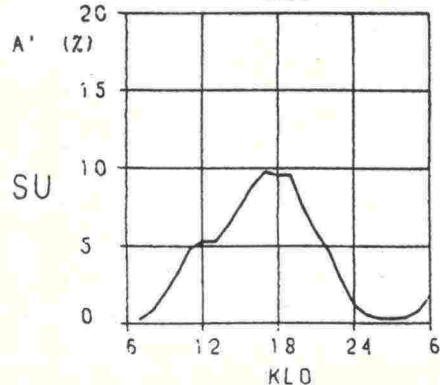
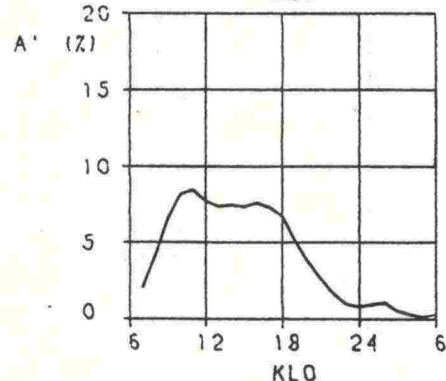
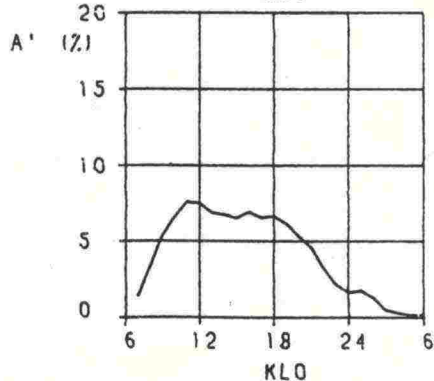
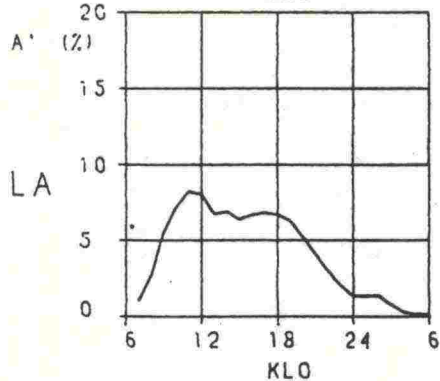
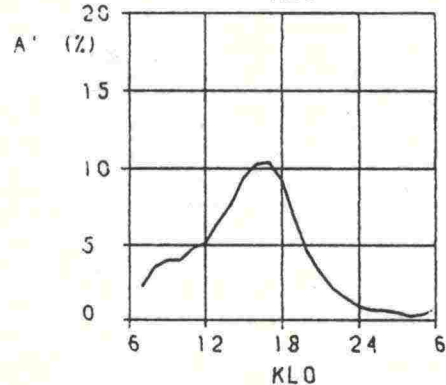
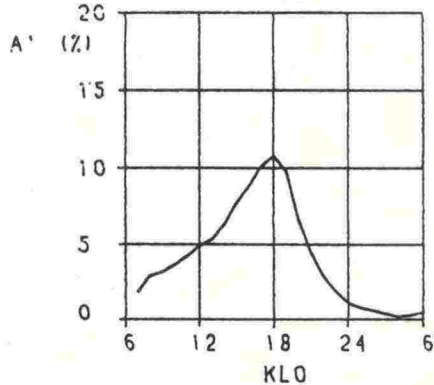
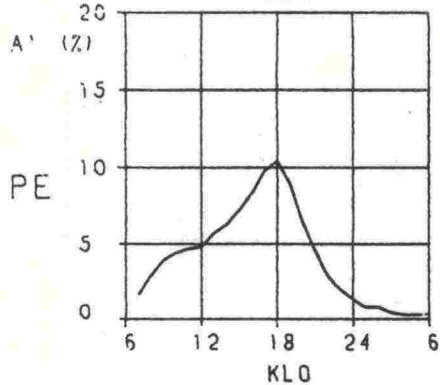
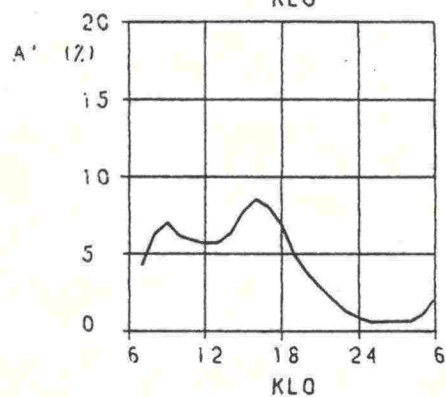
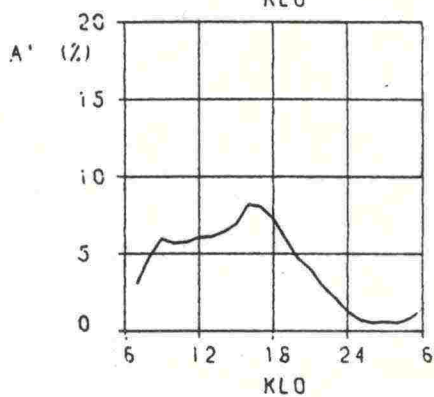
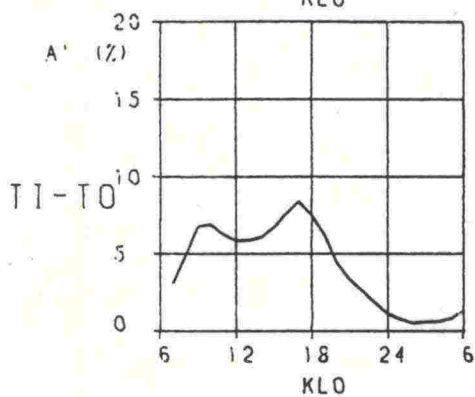
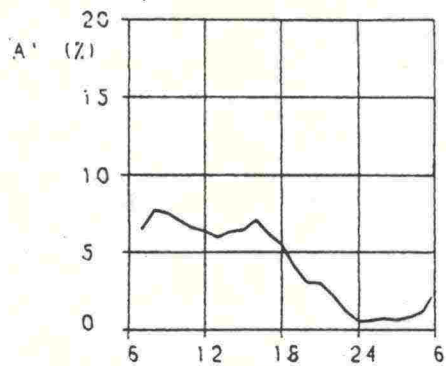
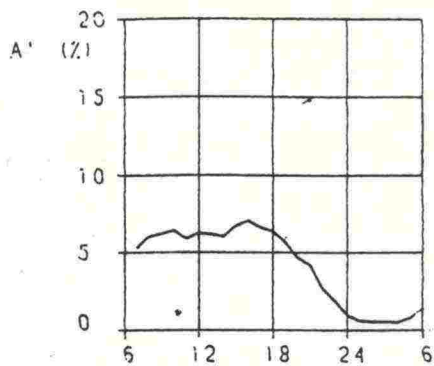
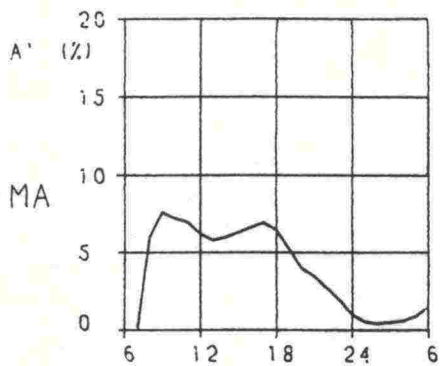




## HELMIKUU

## HEINAKUU

## LOKAKUU



1415HASTINKANGAS

1987

VT4

TIEOSA 435 ETAISYYS 0.7 KM

KVL 2608

B' (SU/KESA) 1.14

KAVL 2377

KKVL 3365

D' 1.28

## ARKILIIKENTEEN KOOSTUMUS

HA 78%

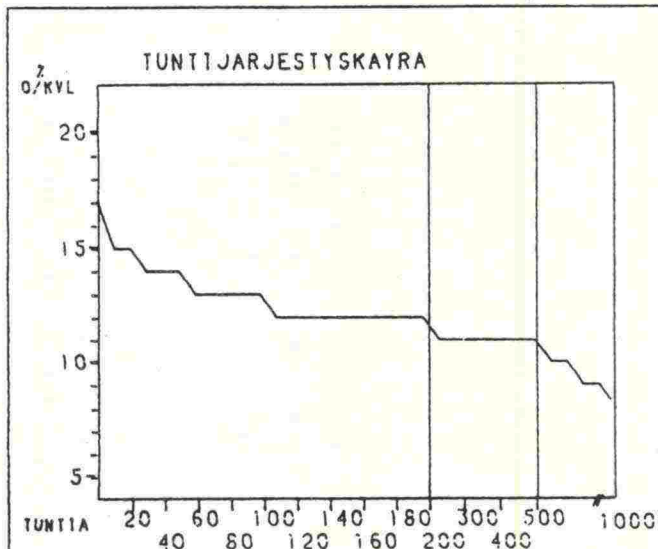
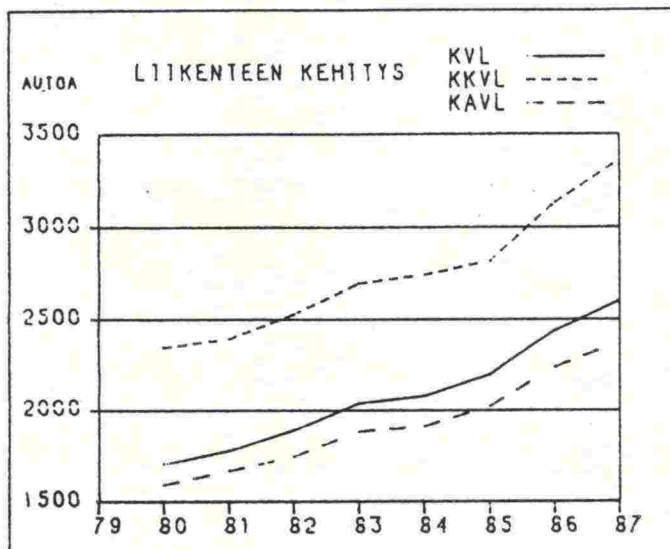
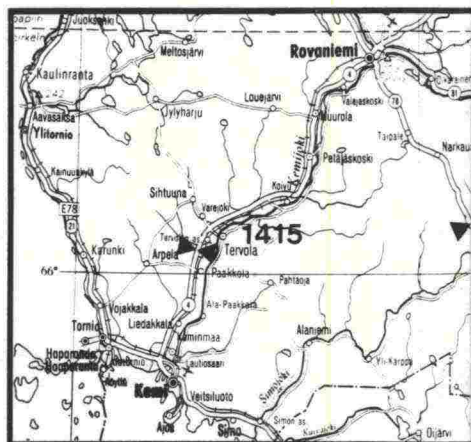
PA 7%

LA 1%

KAIP 3%

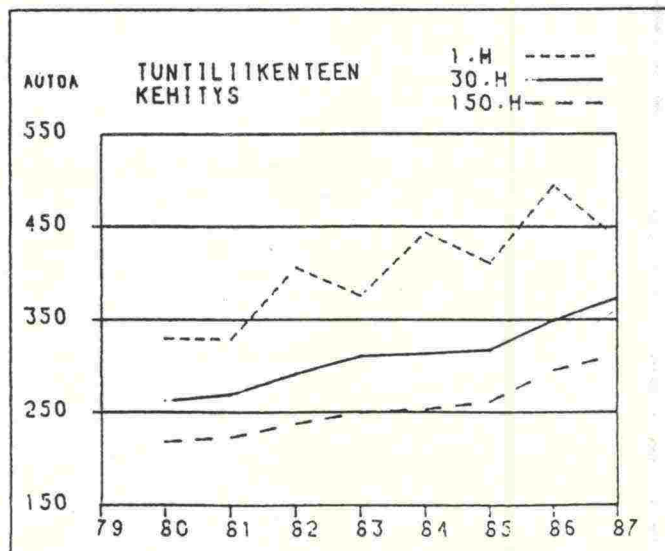
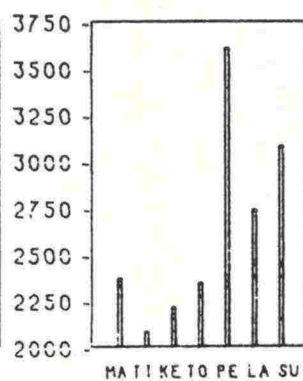
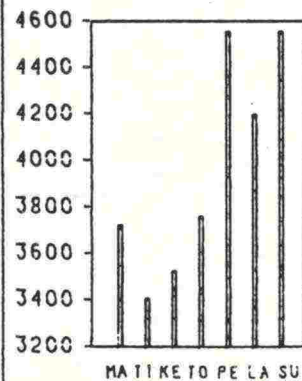
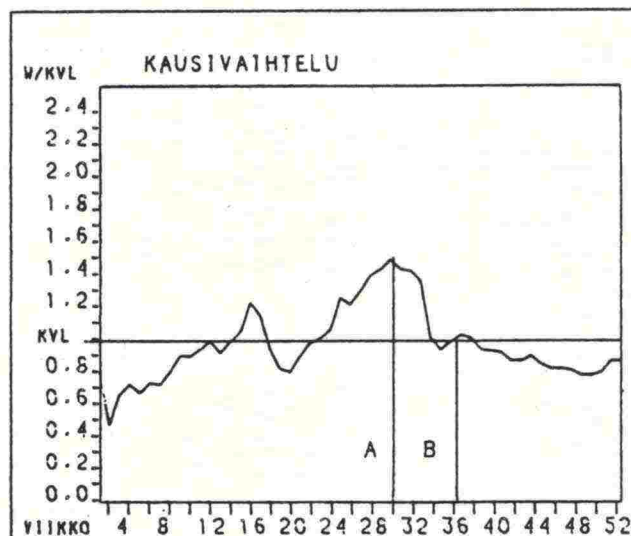
KAPP 1%

KATP 10%



H	O	PE-SU (*)	KERTYMA	HTK
1	438	100	0.1	0.94
30	374	63	1.2	0.92
100	327	81	3.8	0.95
150	312	82	5.4	0.80
300	283	87	10.1	0.91
1000	210	71	28.0	0.94
5000	82	43	85.2	0.82

(\*) MONTAKO 2 KO-ENSIMMAISISTA TUNNEISTA OSUU PE-SU:LE

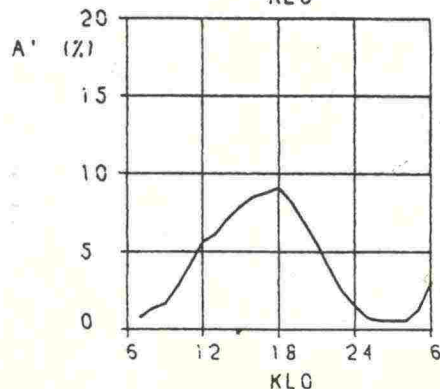
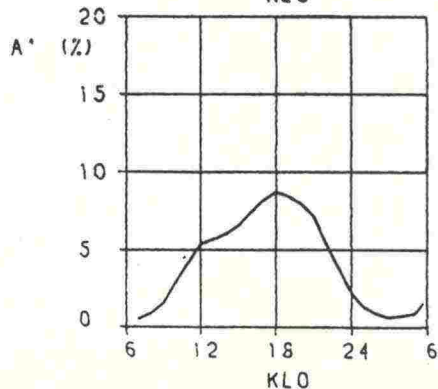
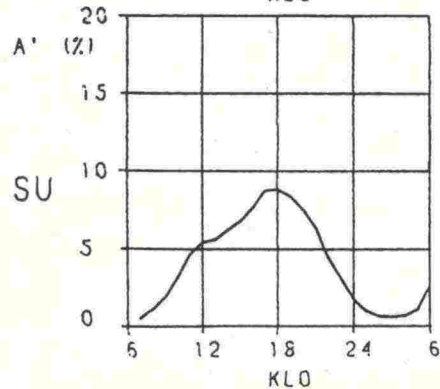
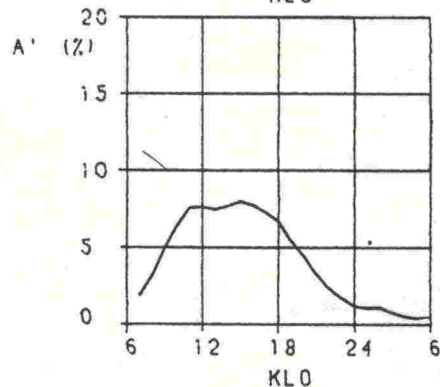
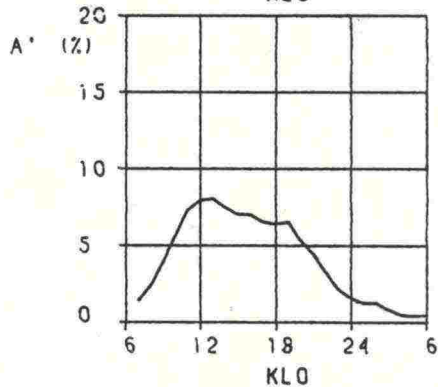
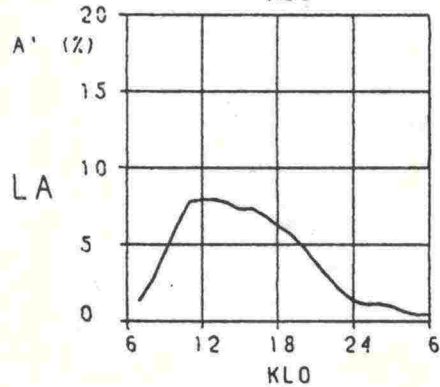
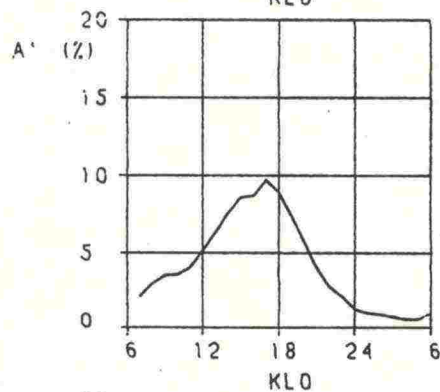
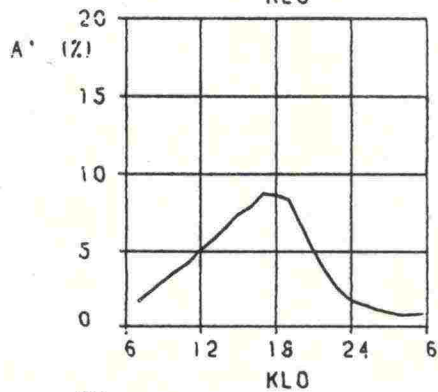
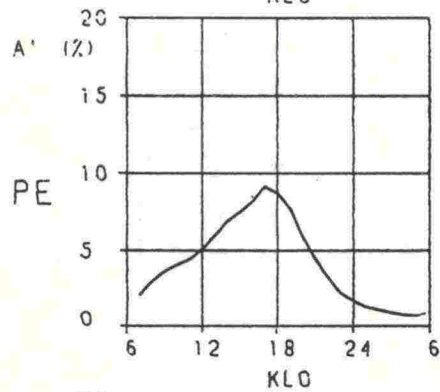
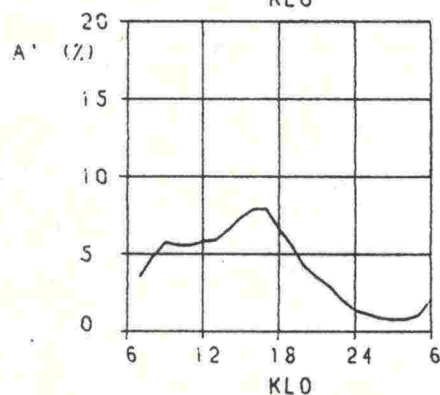
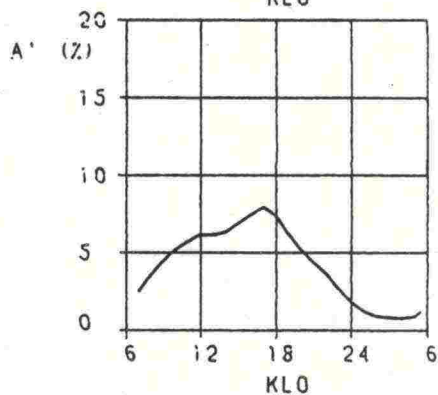
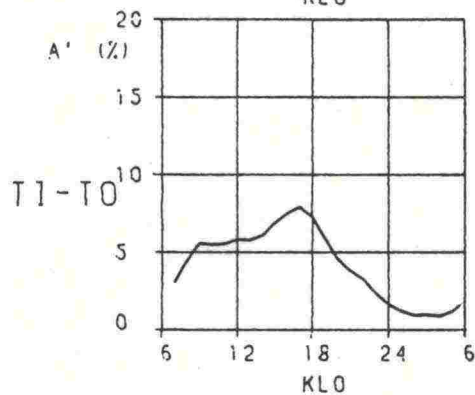
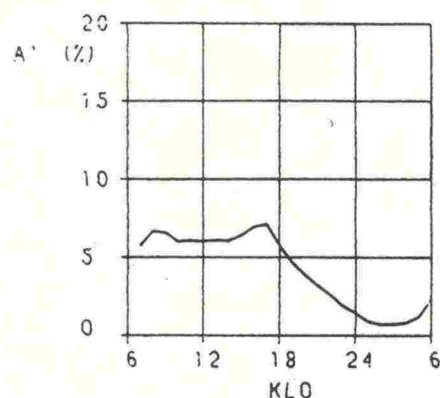
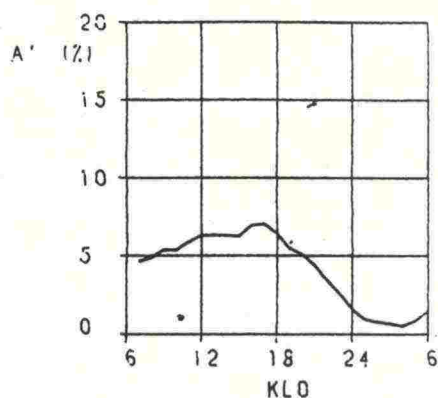
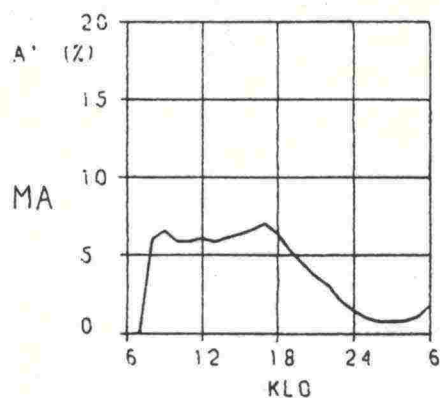




HELMIKUU

HEINAKUU

LOKAKUU



1420 INARI

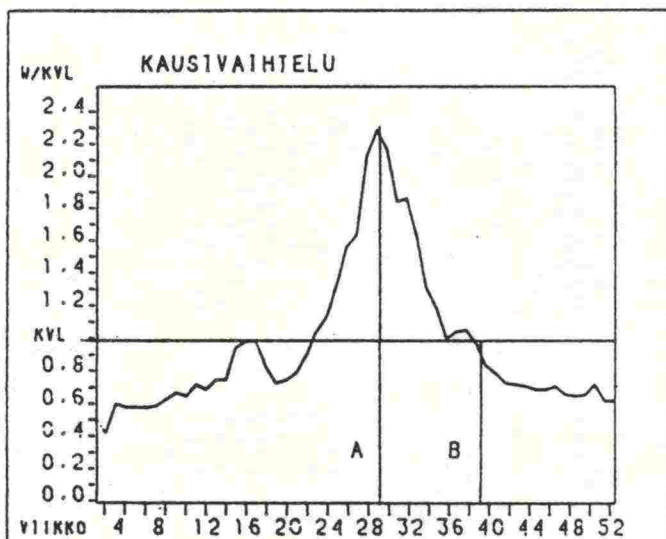
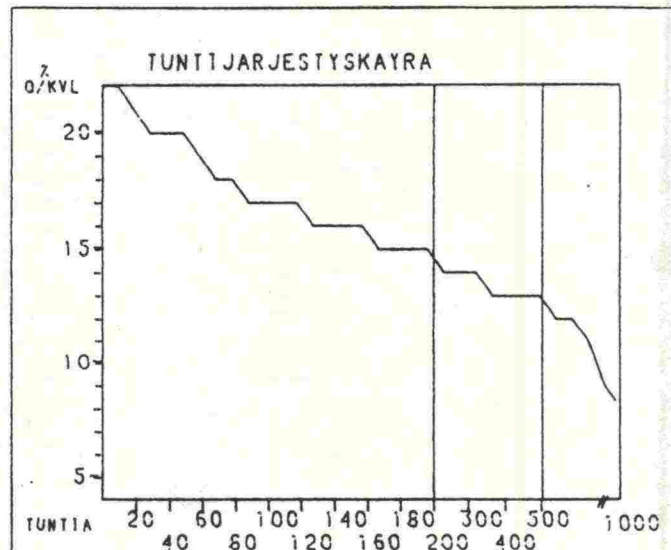
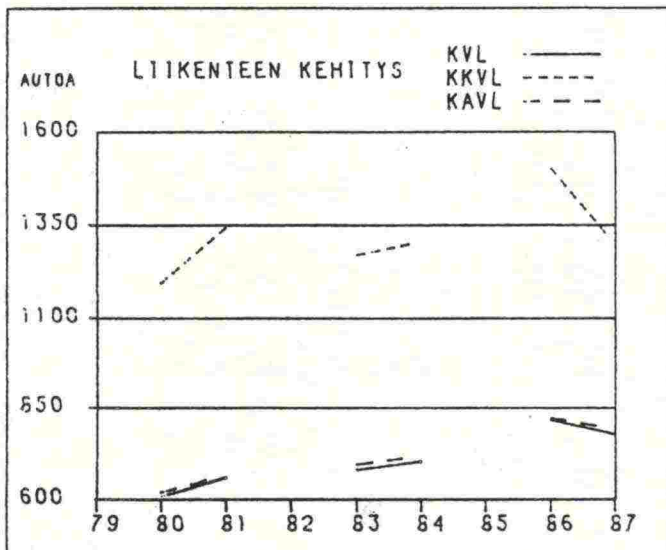
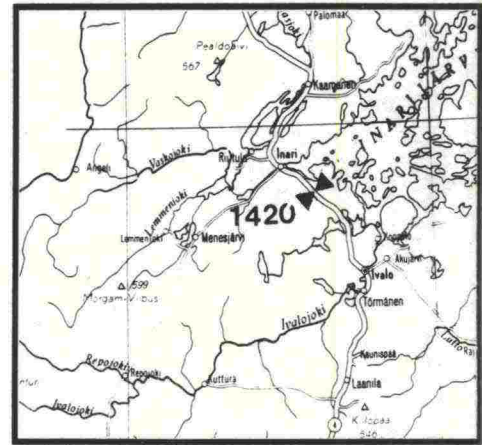
1987

VT4 TIEOSA 558 ETAISYYS 0.0KM

KVL 779 B' (SU/KESA) 0.87  
KAVL 793  
KKVL 1299 D\* 1.66

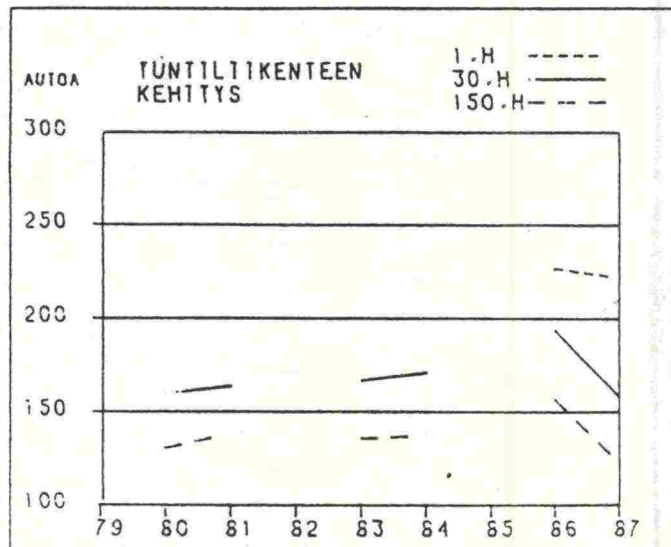
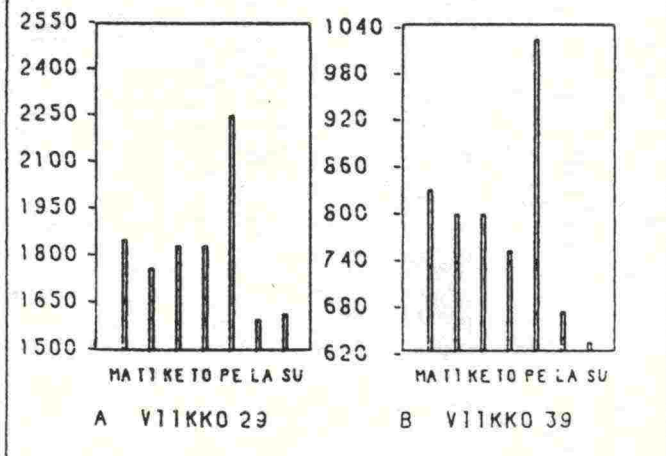
ARKILIIKENTEEN KOOSTUMUS

HA 79% PA 15%  
LA 2% KAIP 1%  
KAPP 1% KATP 2%



H	Q	PE-SU (•)	KERTYMA	HTK
1	222	100	0.1	-
30	158	67	1.9	-
100	133	46	5.4	-
150	123	46	7.7	-
300	102	43	13.5	-
1000	66	47	33.4	0.92
5000	20	41	87.3	-

(•) MONTAKO 2 KO-ENSIMMAISTISTA TUNNETISTA OSUUS PE-SU:ILLE



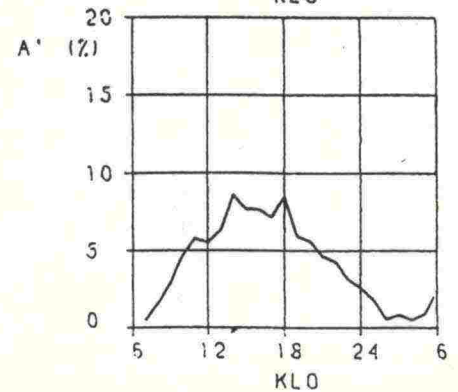
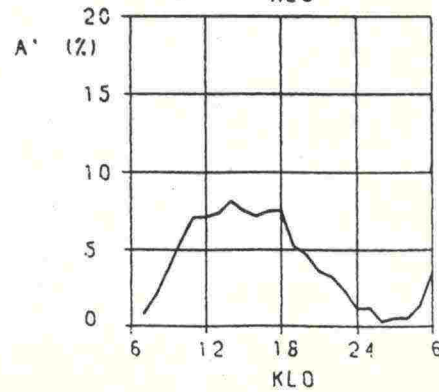
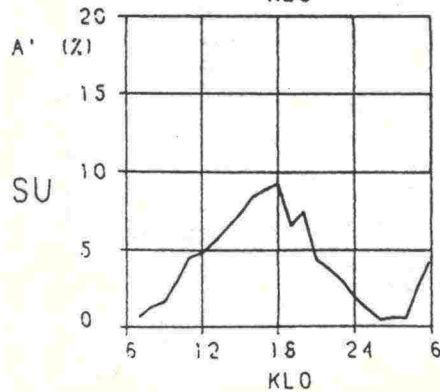
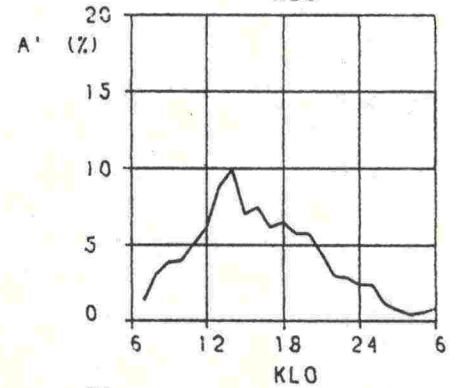
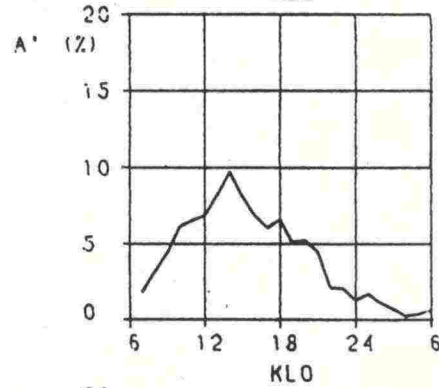
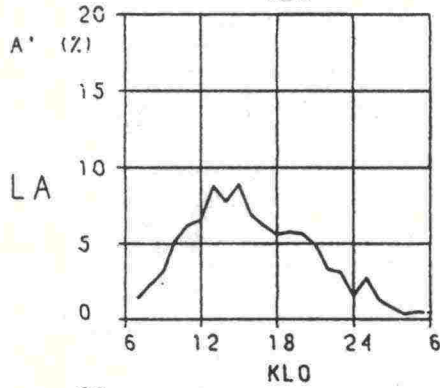
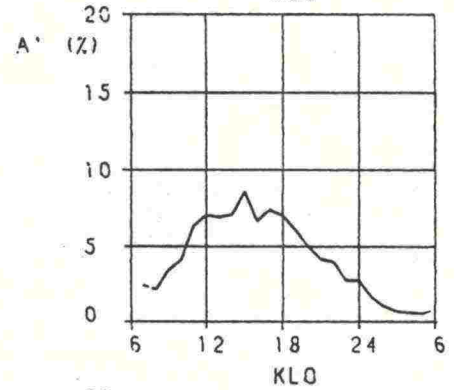
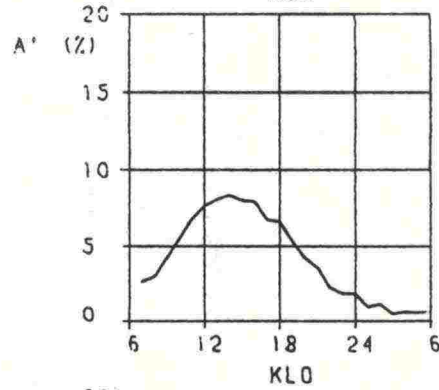
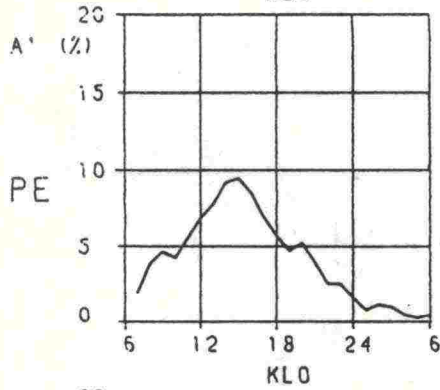
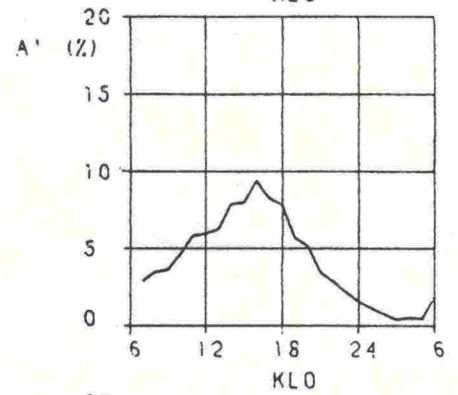
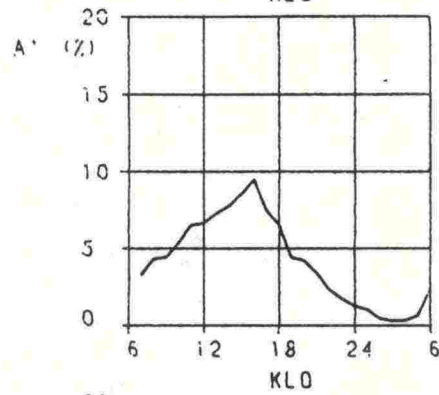
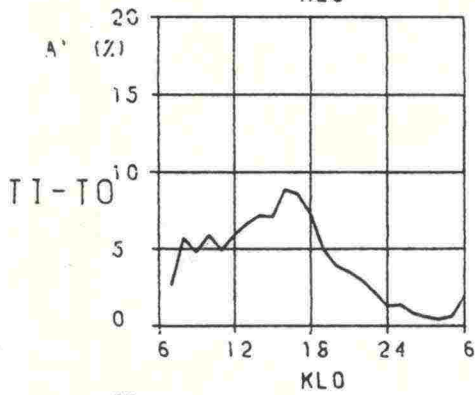
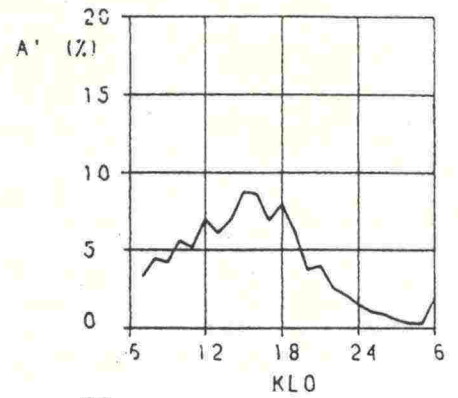
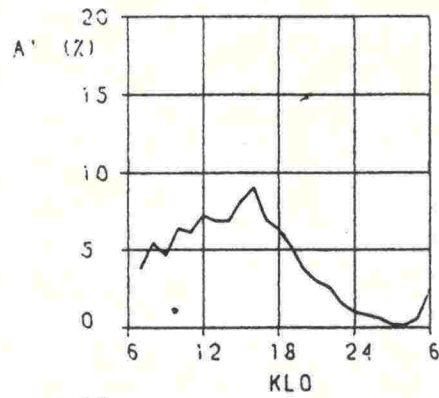
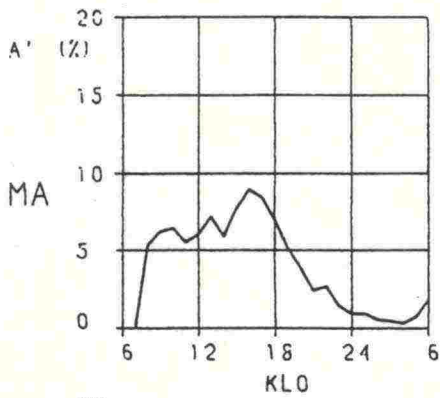


## TUNTIVAIHTELUT

HELMIKUU

HEINAKUU

LOKAKUU



1421 KOLARI

1987

VT21 TIEOSA 140 ETAISYYS 1.0 KM

KVL 1323

B' (SU/KESA) 0.96

KAVL 1244

KKVL 1641

D' 1.24

## ARKILIIKENTEEN KOOSTUMUS

HA 82 %

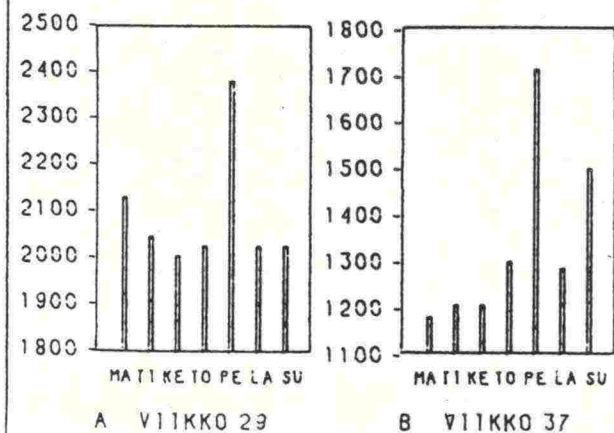
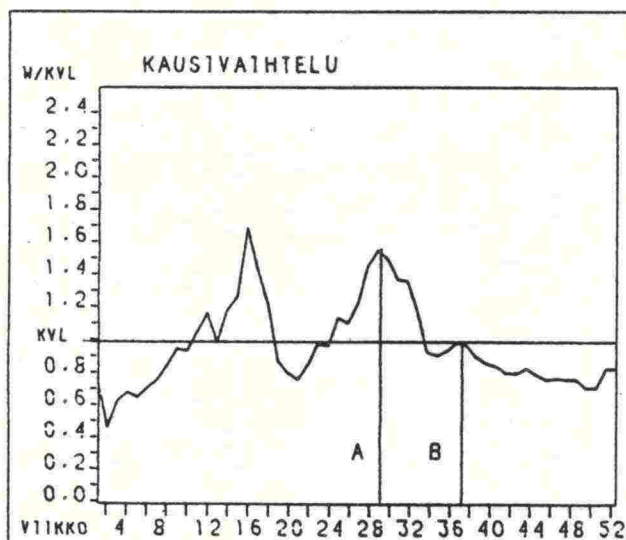
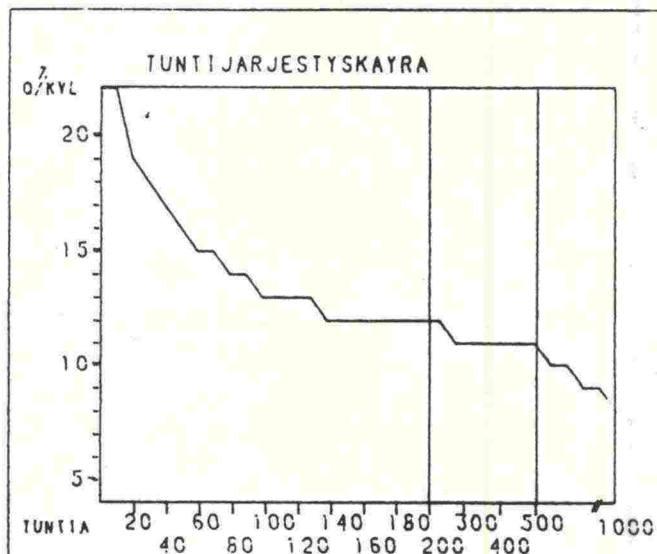
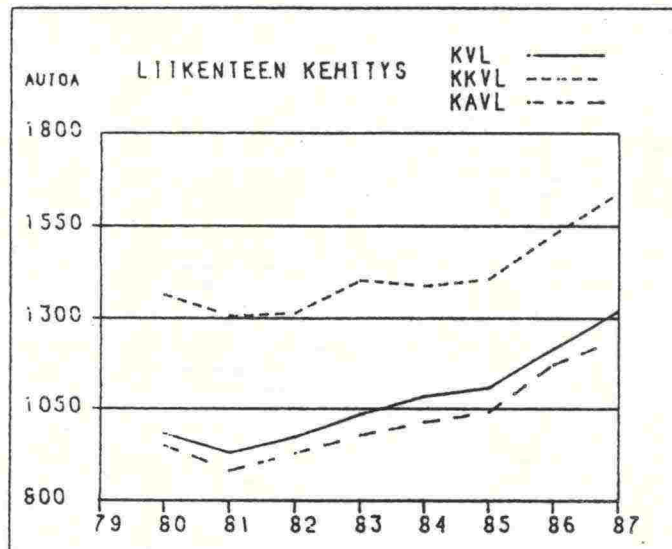
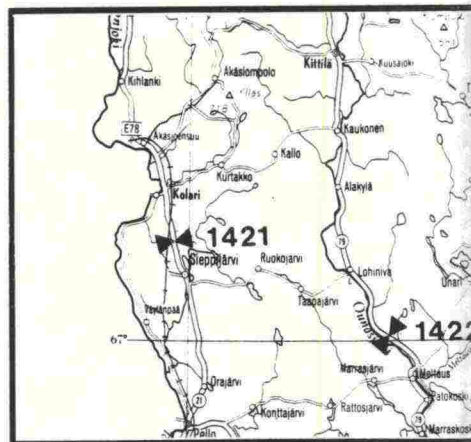
PA 8 %

LA 3 %

KAIP 4 %

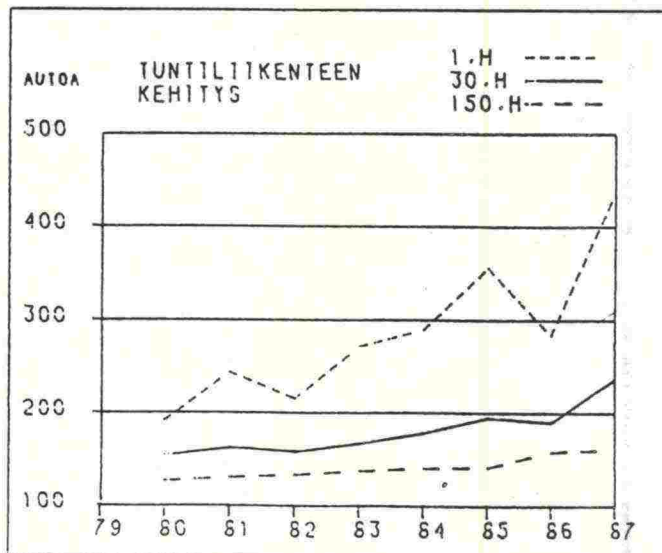
KAPP - %

KATP 3 %



H	G	PE-SU (*)	KERTYMA	HTK
1	437	100	0.1	0.74
30	238	70	1.8	0.89
100	178	80	4.7	0.87
150	162	73	6.4	0.90
300	143	68	11.1	0.70
1000	107	63	28.8	0.81
5000	44	41	86.9	0.79

(\*) MONTAKO 2 KO-ENSIMMAISISTA TUNNEISTA OSUU PE-SU: LLE

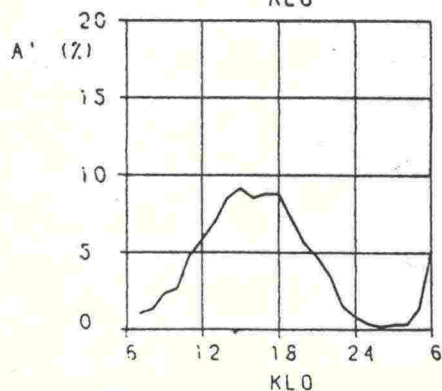
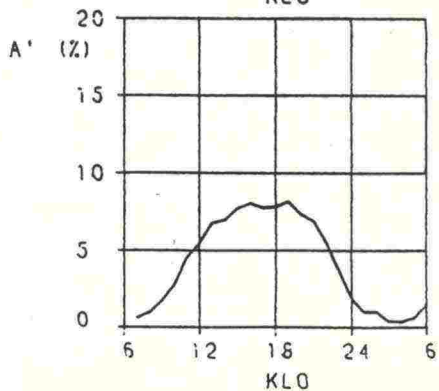
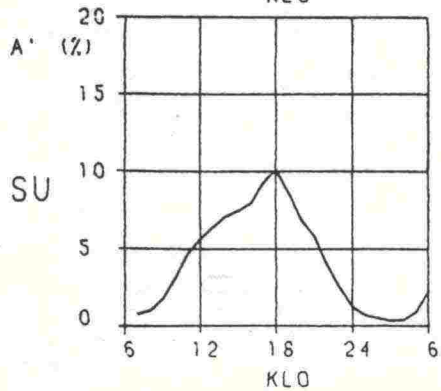
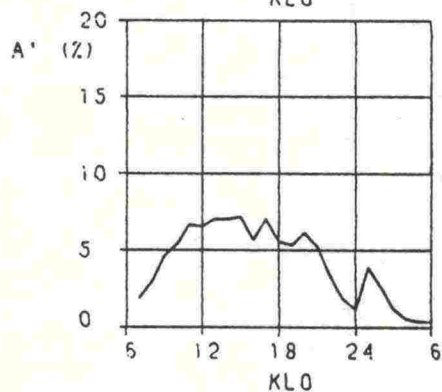
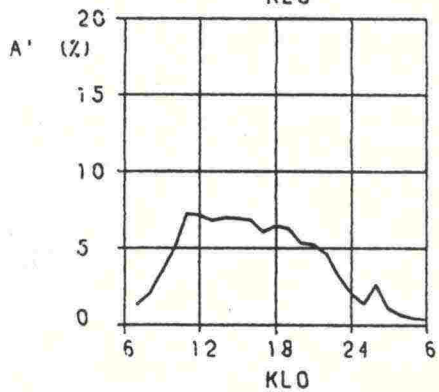
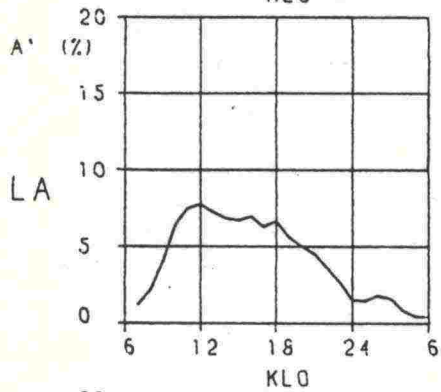
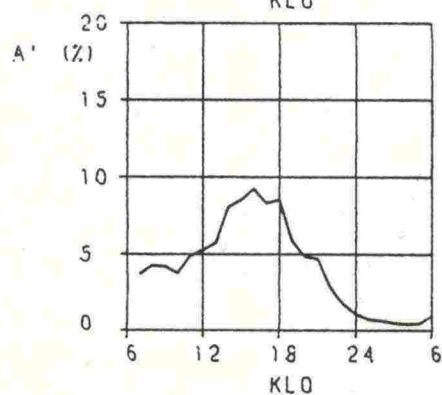
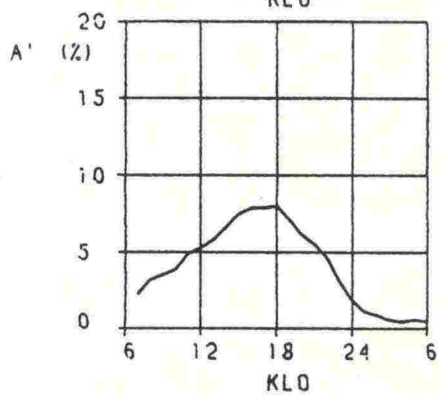
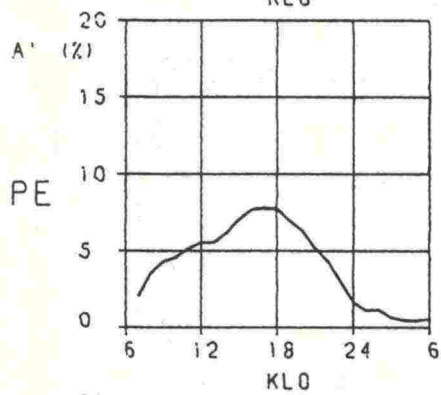
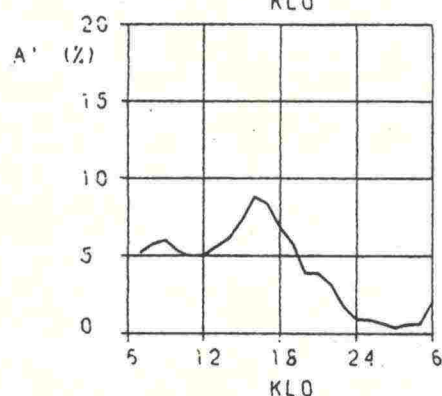
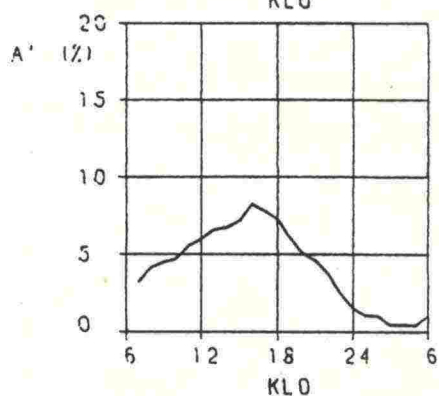
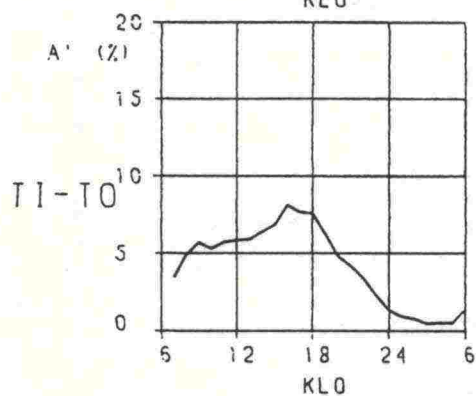
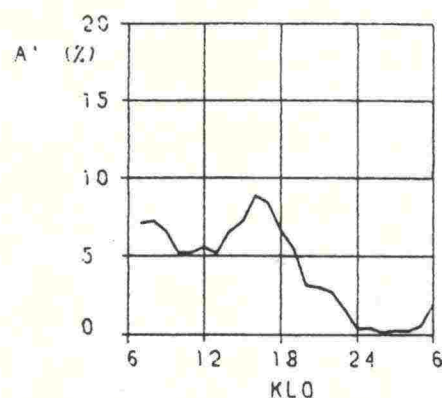
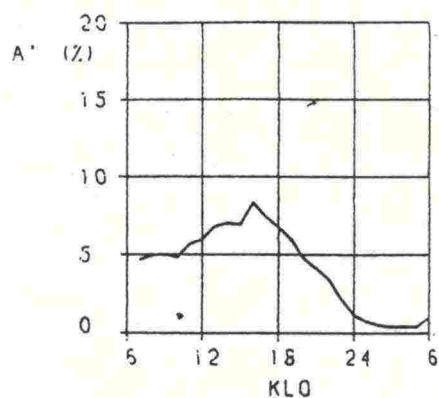
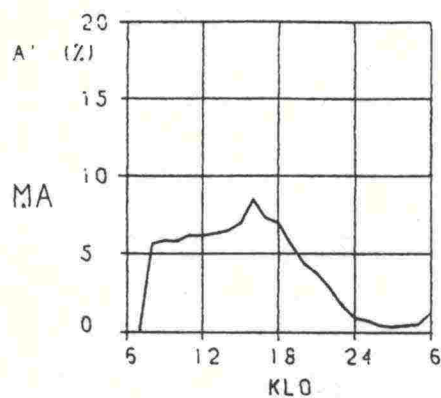




HELMIKUU

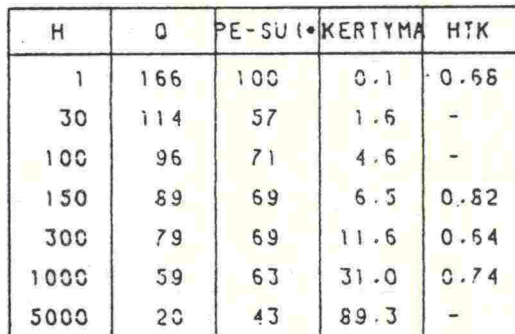
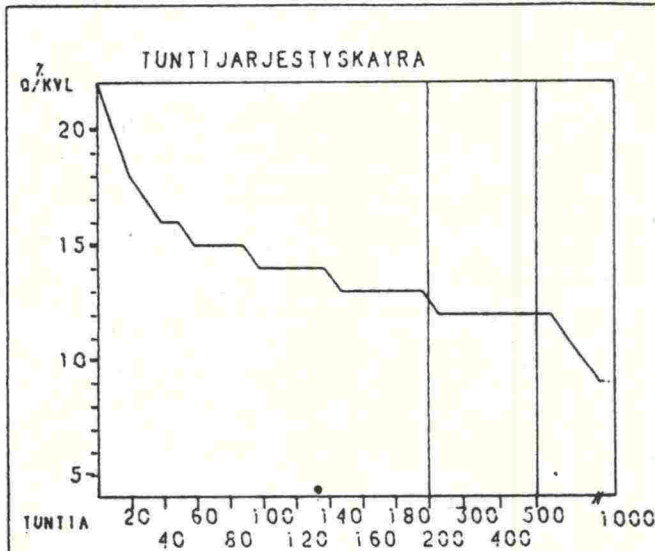
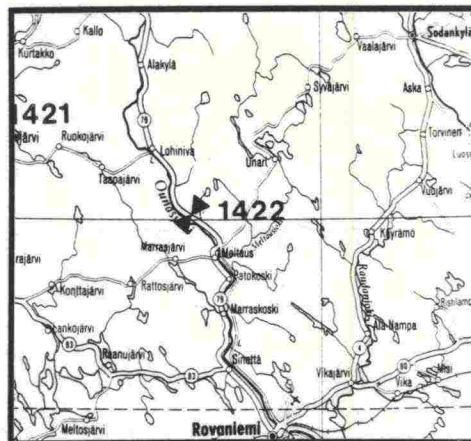
HEINÄKUU

LOKAKUU

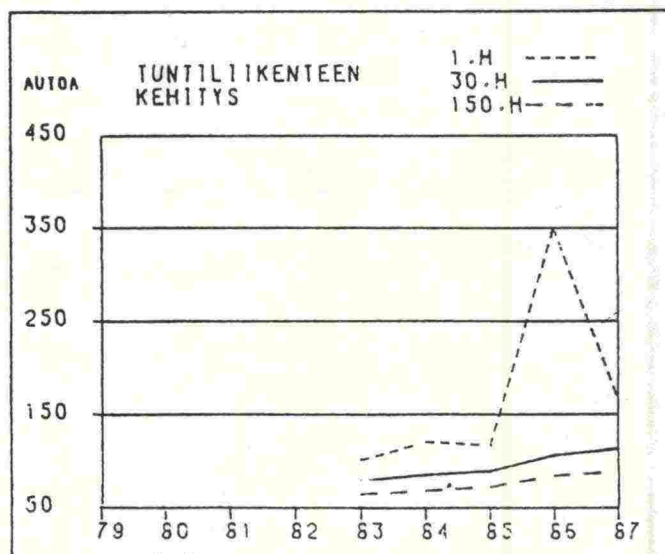


D' 1.33

KAPP - %



(\*) MONTAKO 2 KO-ENSIMMAISTISTA TUNNETUSTA OSUUS PE-SU-LLA

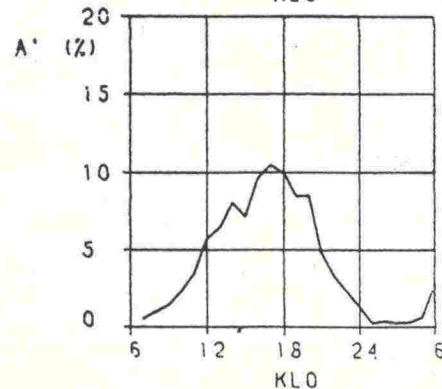
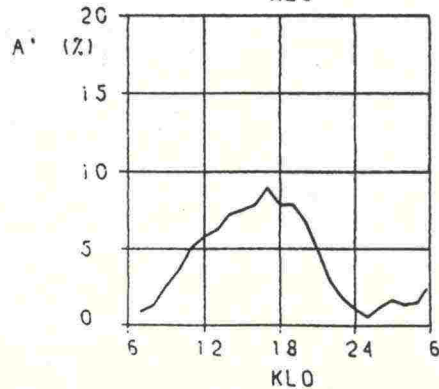
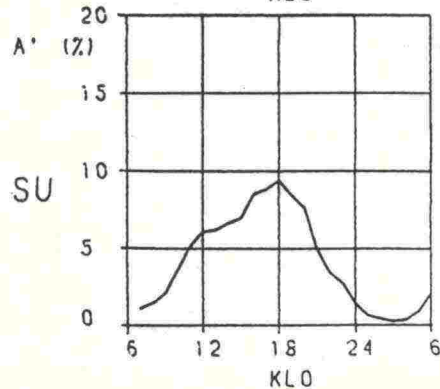
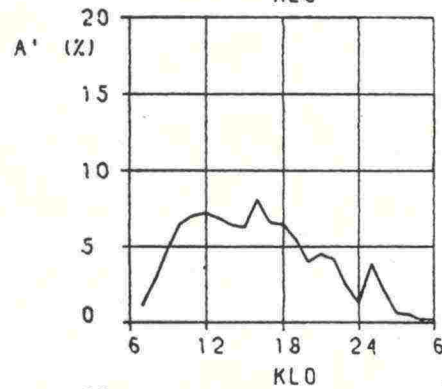
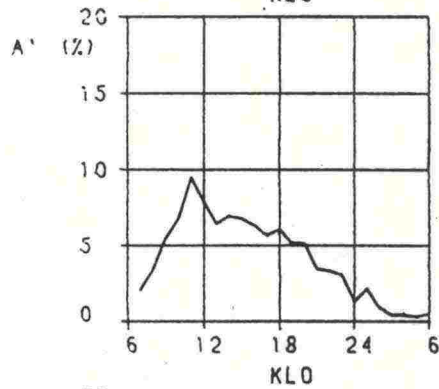
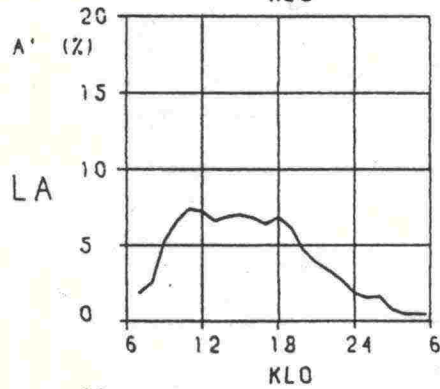
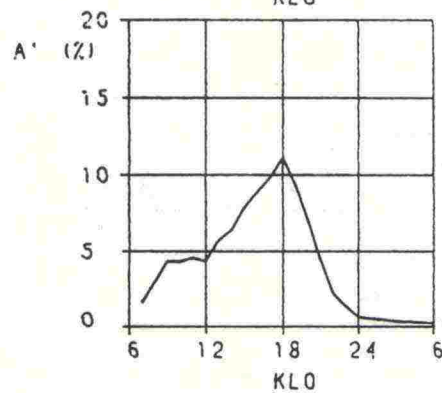
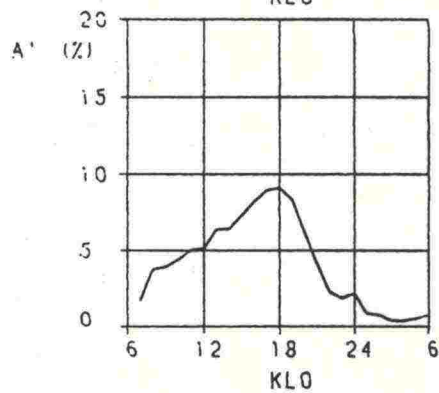
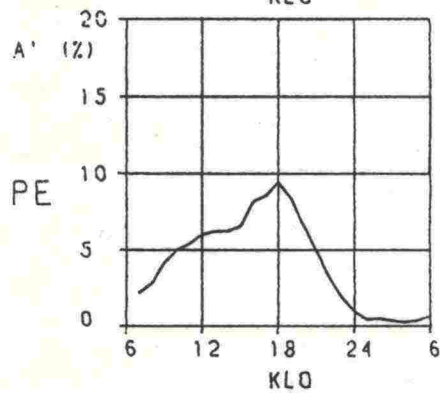
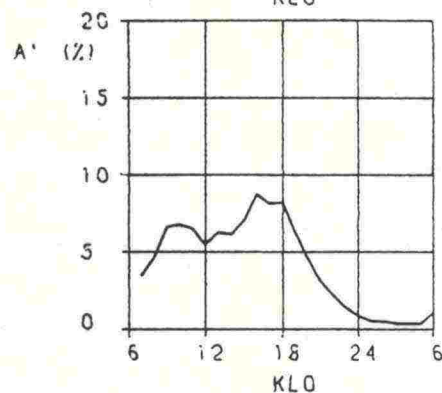
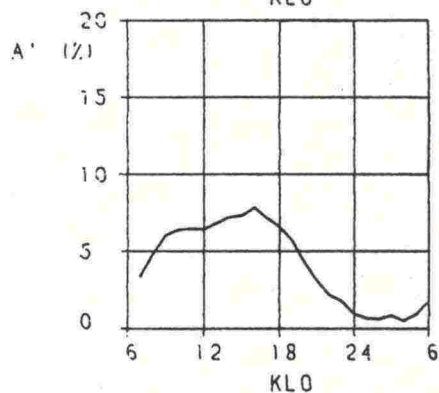
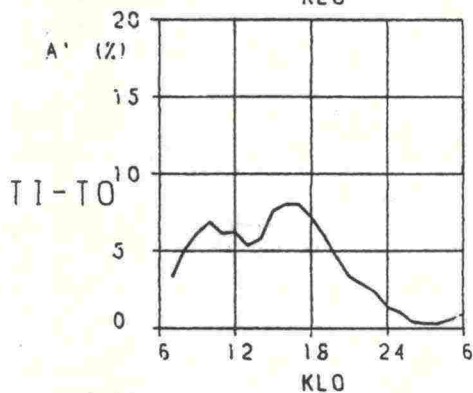
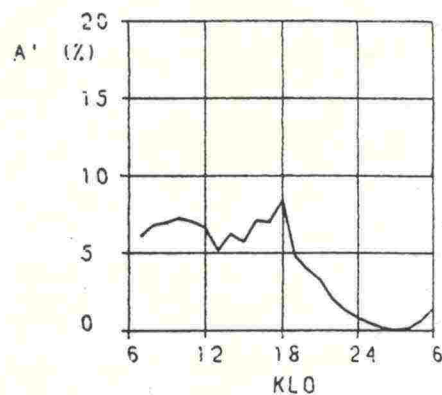
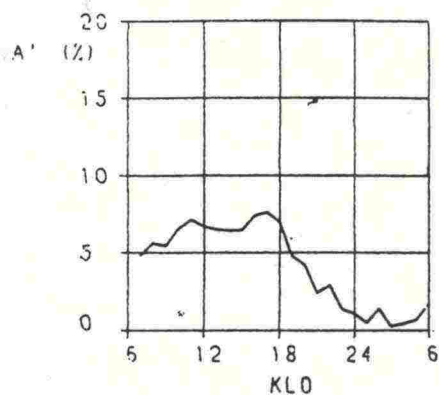
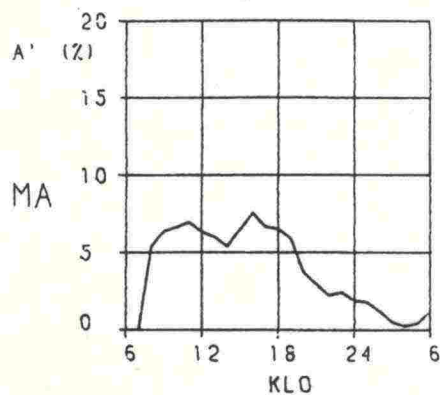




## HELMIKUU

## HEINAKUU

## LOKAKUU



1423PORTIMO

1987

KT78

TIEOSA 217 ETAISYYS 0.0KM

KVL 627

B' (SU/KESA) 1.14

KAVL 567

KKVL 890

D' 1.41

## ARKILIIKENTEN KOOSTUMUS

HA 84 %

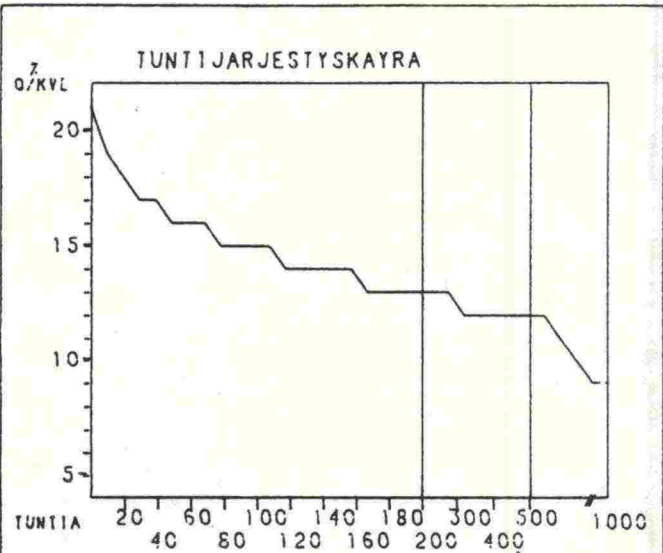
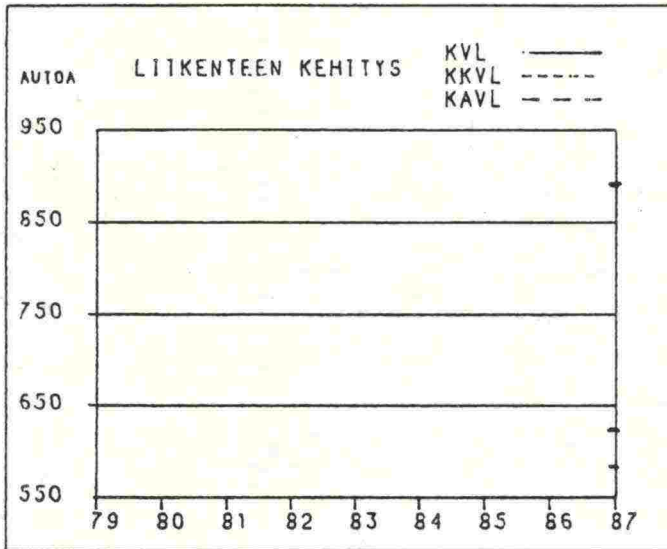
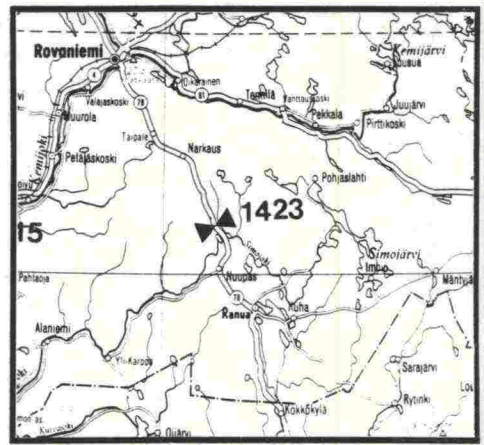
PA 8 %

LA 2 %

KAIP 3 %

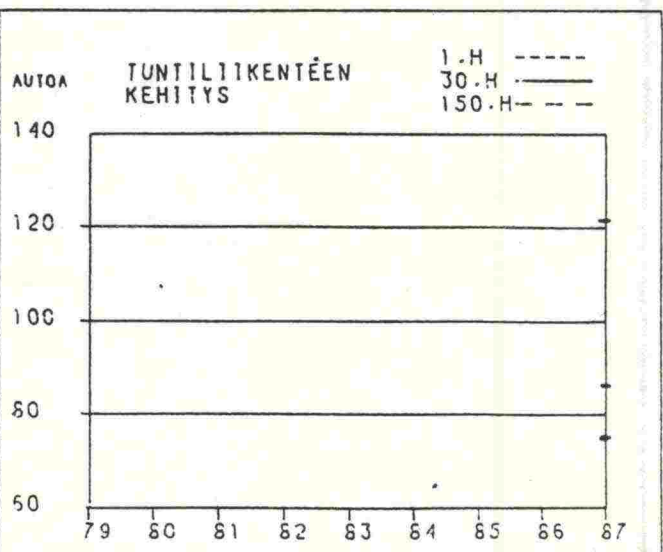
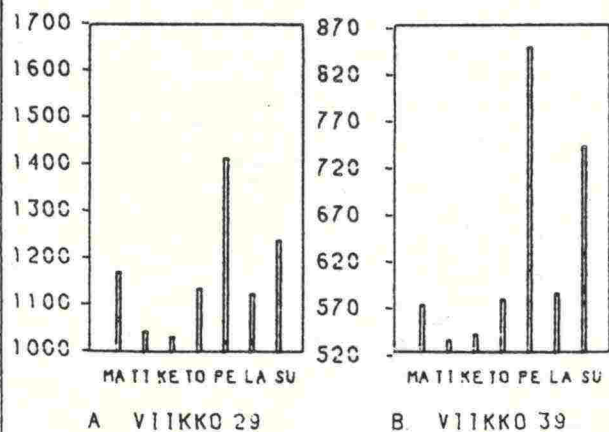
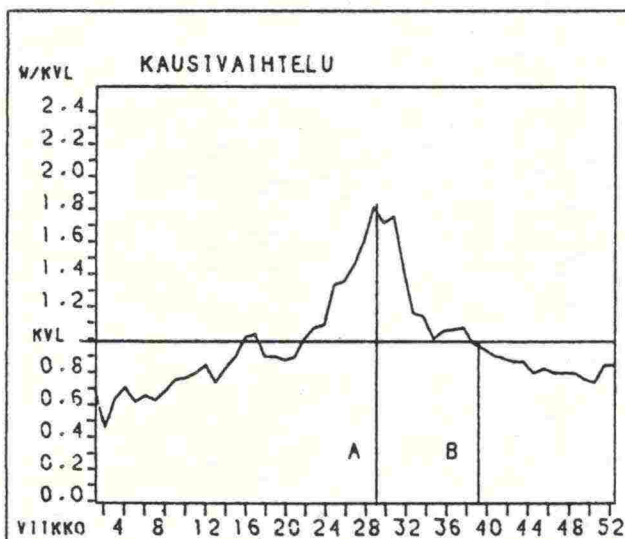
KAPP - %

KATP 3 %



H	Q	PE-SU (*) KERTYMA	HTK
1	131	100	0.1
30	107	83	1.5
100	93	87	4.6
150	86	85	6.5
300	75	76	11.7
1000	54	65	31.0
5000	18	43	89.7

(\*) MONTAKO X KO-ENSIMMAISISTA TUNNEISTA OSUU PE-SU: LLE

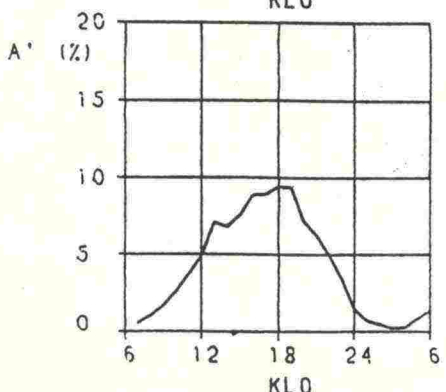
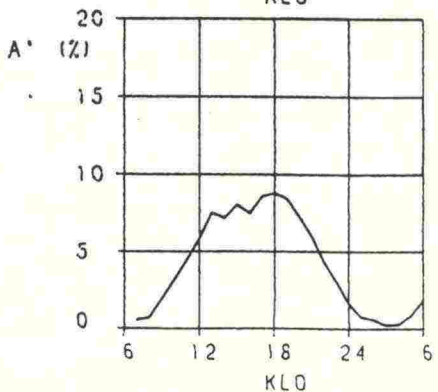
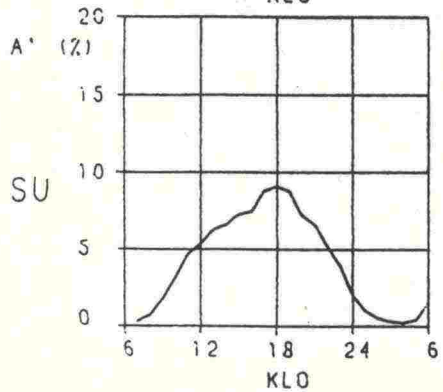
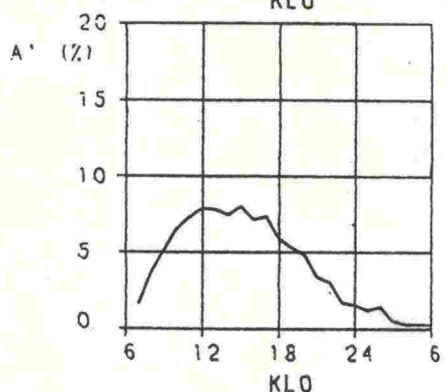
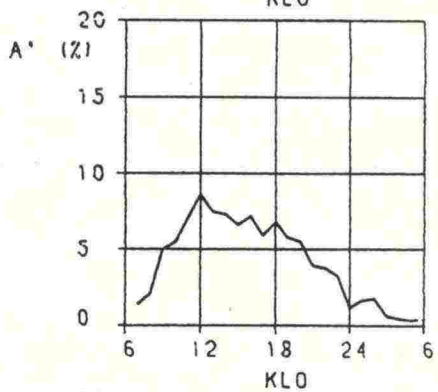
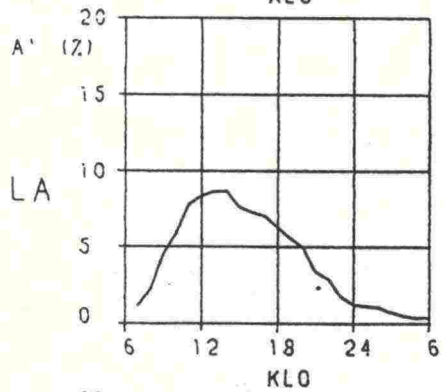
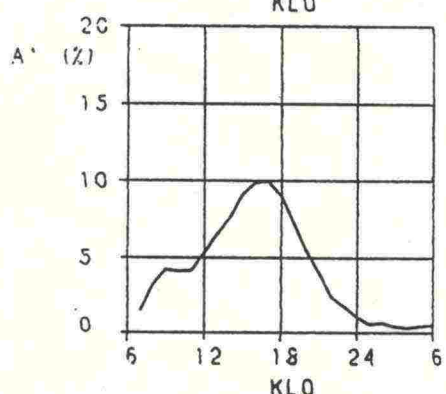
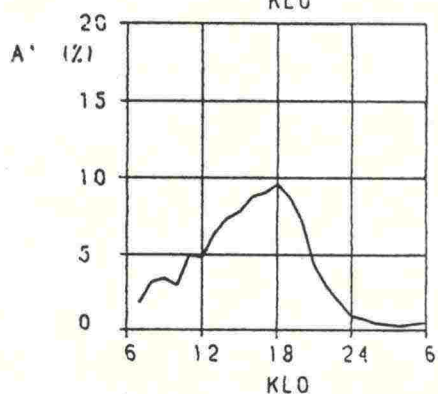
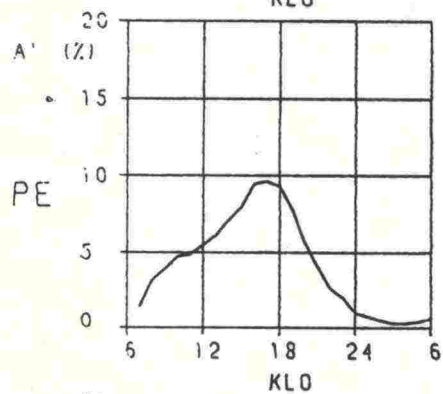
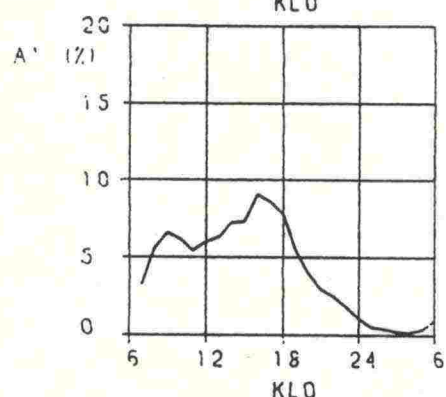
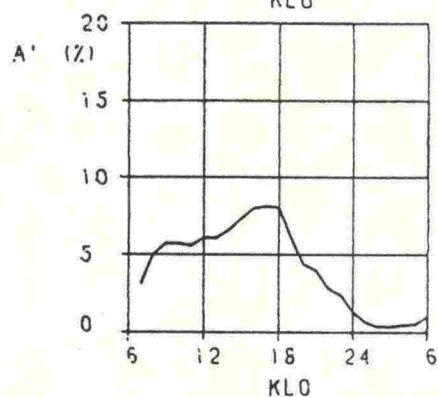
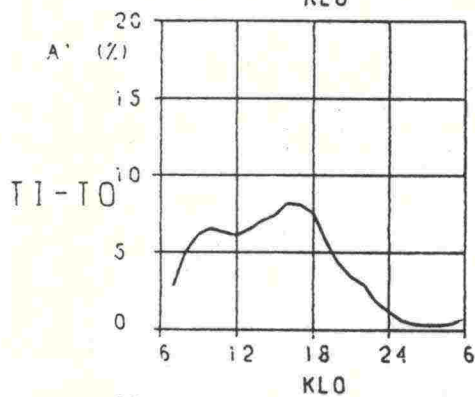
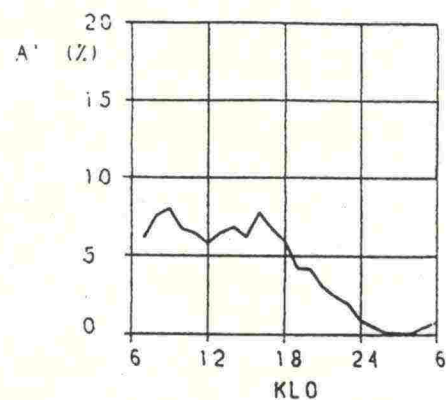
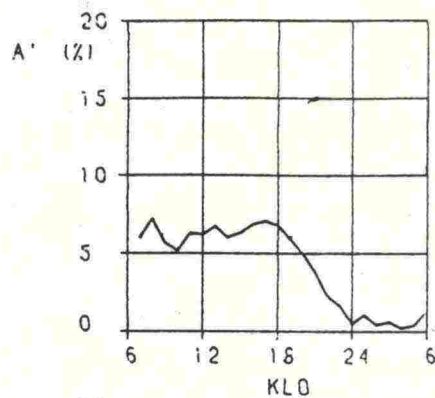
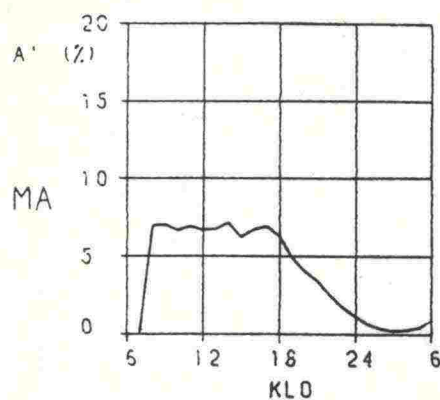




## HELMIKUU

## HEINAKUU

## LOKAKUU





SUOMEN  
MAANTIEVERKKKO

1:1 000 000

FINLANDS  
LANDSVÄGSNÄT

TVL:N KIINTEÄT KONE -  
LASKENTAPISTEET 1987

KONELASKENTAPISTE

